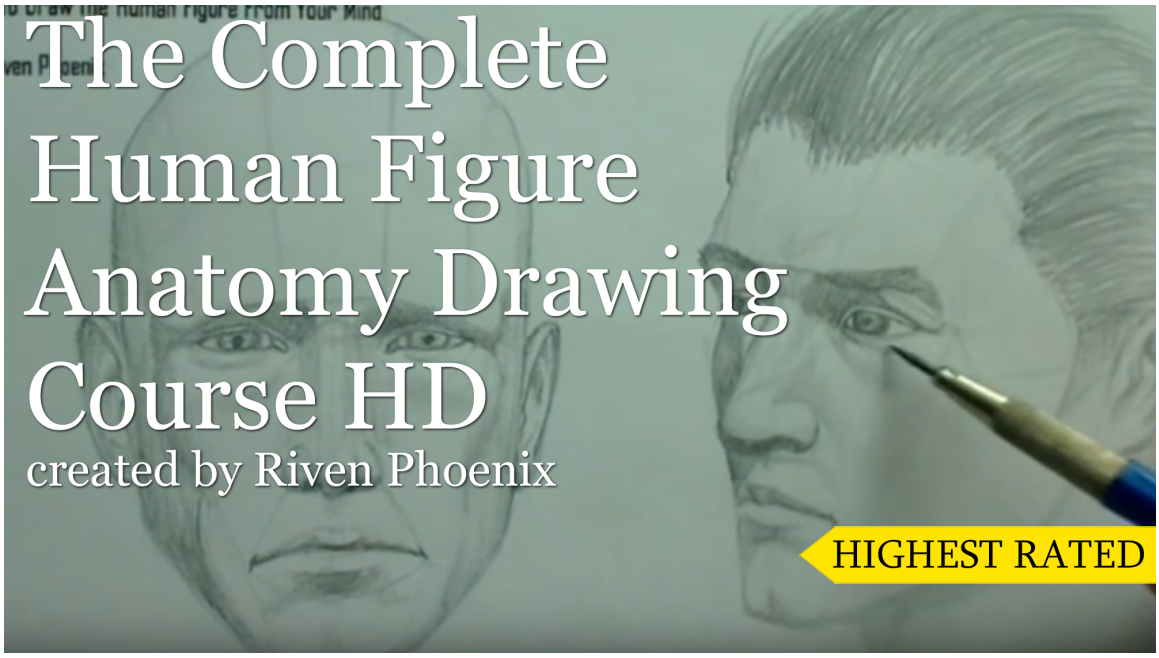

The Structure of Man

Learn to Draw the Human Figure From Your Mind with Riven Phoenix

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Figure Drawing Lesson 039 - The Formulas for the Front Pelvis

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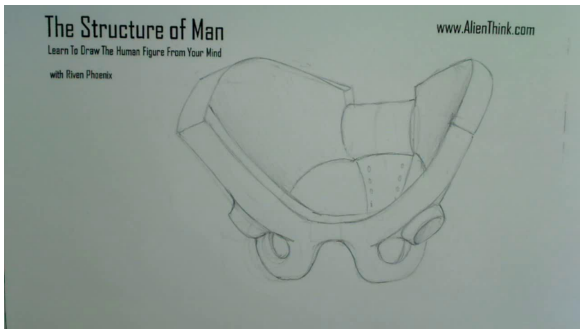
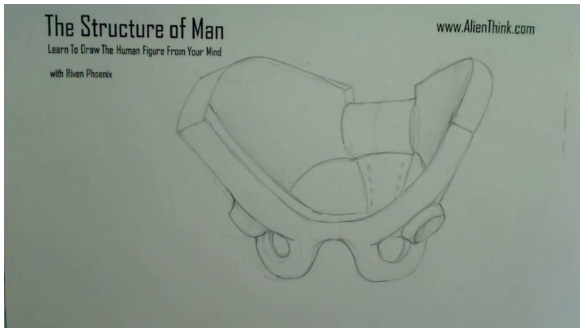
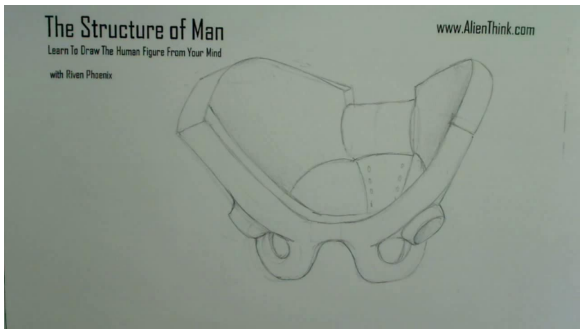
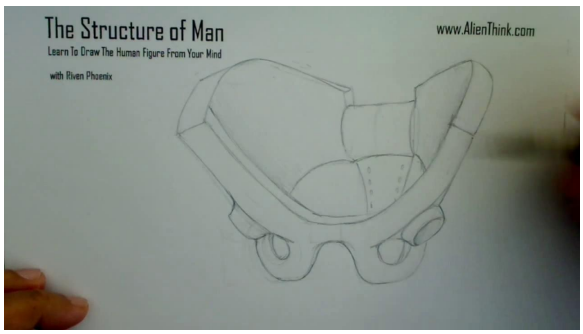
1		Hey guys, my name is Riven Phoenix and welcome to the structure of man I learned to draw
2		the human figure from your mind training course.
3		Okay, so in the previous lesson we went through this process of understanding the pelvis
4		in a 3D view to get a general idea of what is actually going on with this bone structure

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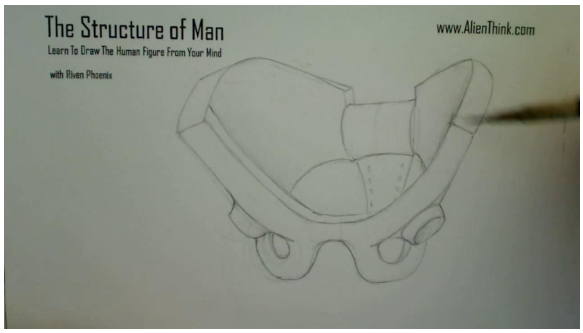
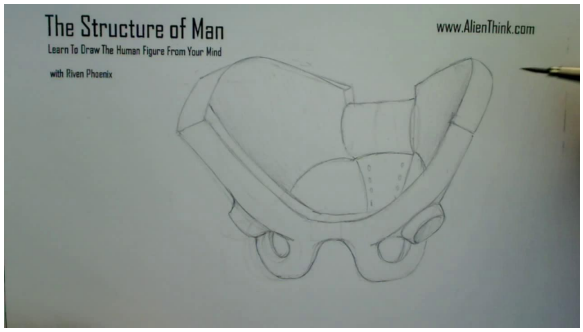
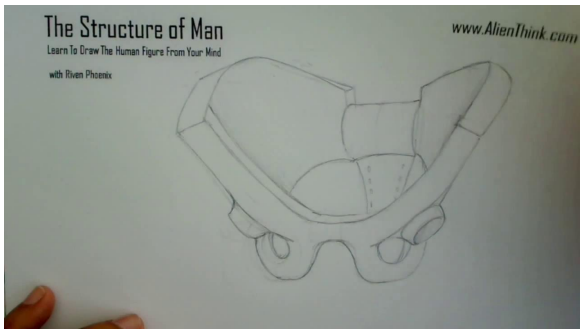
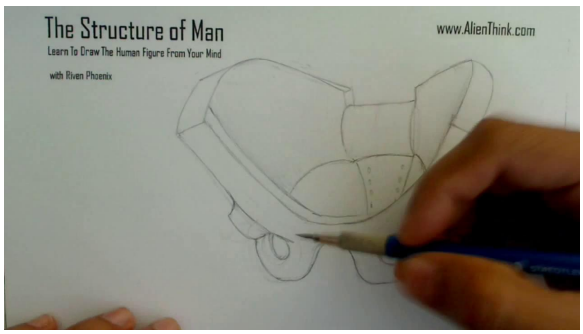
5		here that we've invented, right?
6		So what we want to do now is since we've looked at this in a basic conceptual idea and perspective
7		we're not going to come up with some formulas to make it easy for us to get the mind to
8		understand what exactly happens over here and how this bone structure relates to this.

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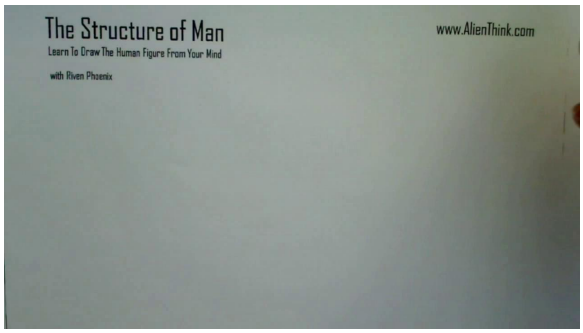
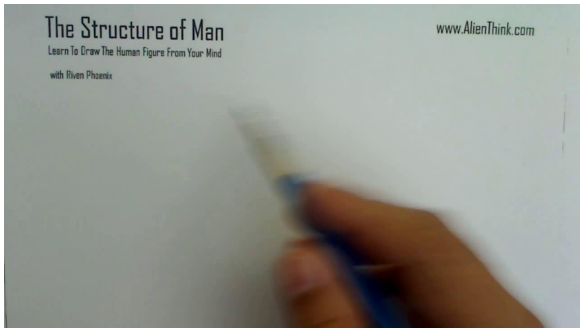
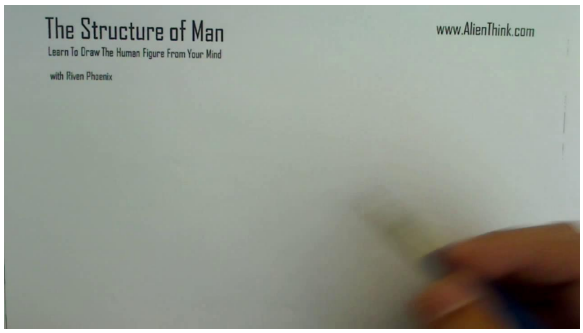
9		So to do this, what we're going to do is first look at the front formulas, right?
10		And again, the concept of the formulas is just to get the mind to understand how to draw
11		out the pelvis and obviously you can just do it freehand later on, right?
12		Leave the pelvis, these concepts behind.

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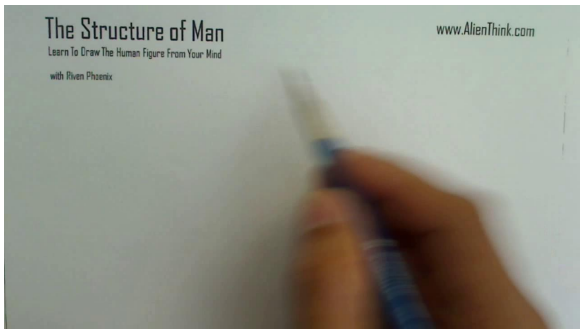
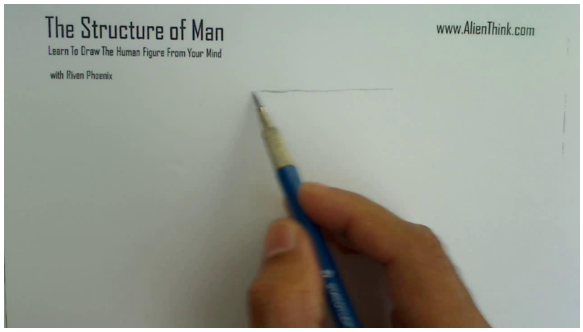
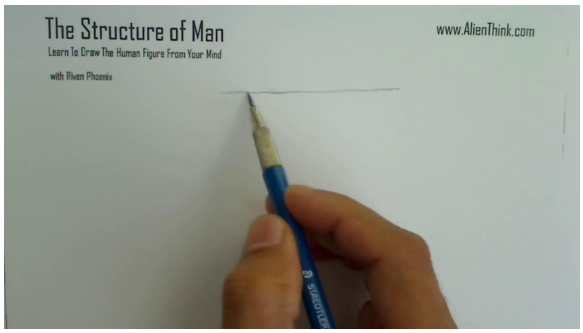
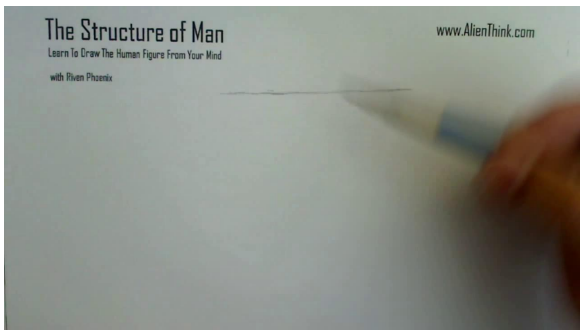
13		Okay, so to start out, what we're going to do is here let's just draw out a box shape here.
14		Right, so we're just going to concentrate on the pelvis area for now.
15		So here I'm just going to make it a little more bigger so you can see this.
16		Okay, so here I'm just going to divide this in half and just go down because I really

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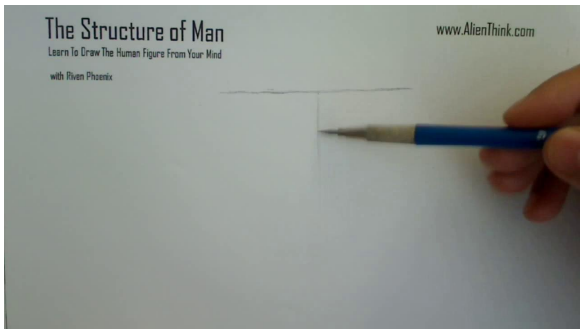
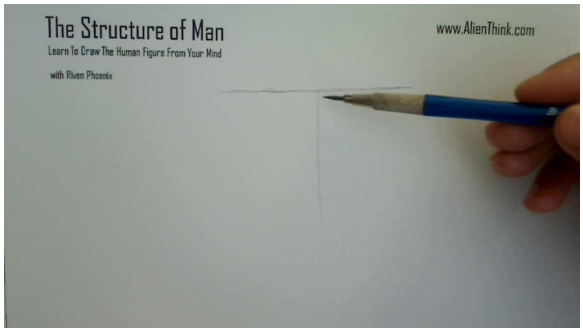
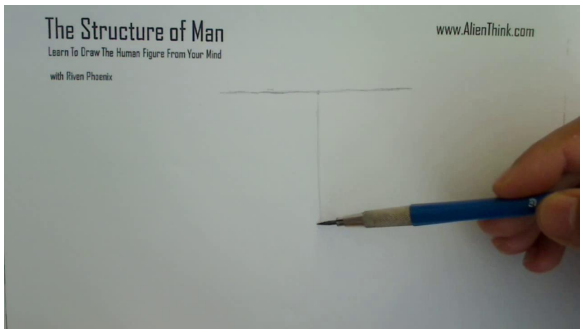
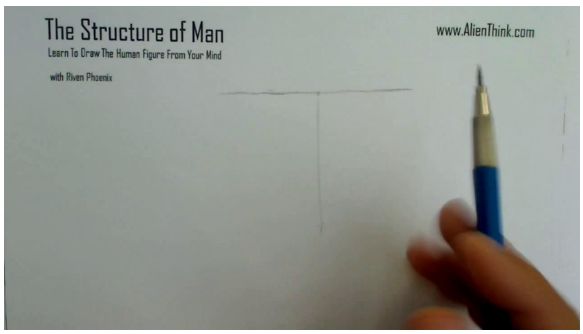
17		just want to make like a box structure here.
18		So just imagine this that this is going to be the area for the navel and then over here
19		this is going to be really the crotch area, right?
20		We're just looking at that segment.

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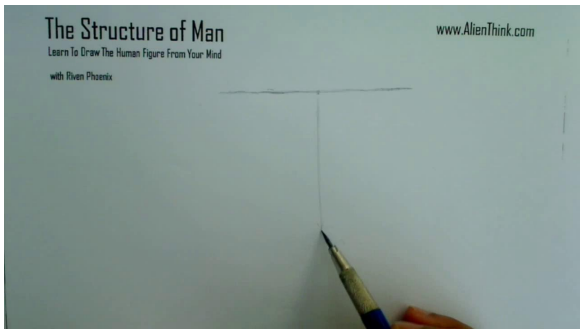
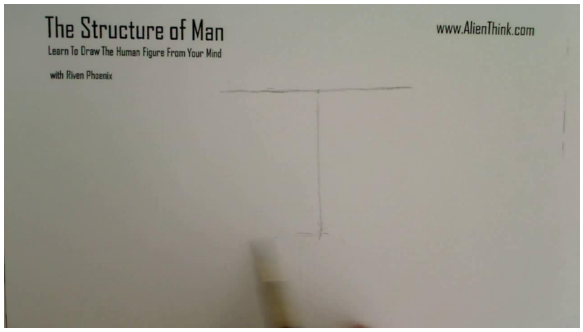
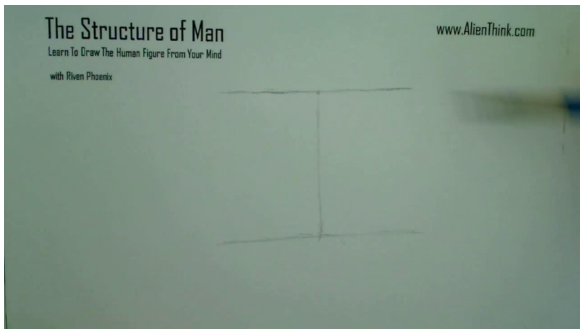
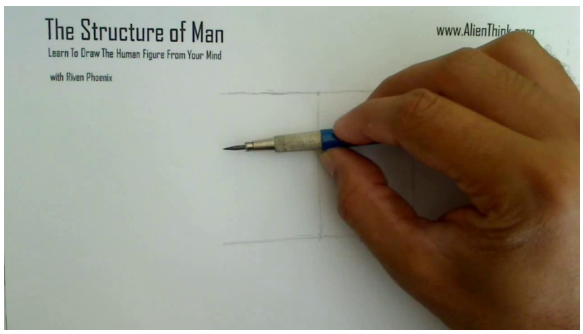
21		So I'm just going to pull this down a little bit more over here and then here I'm just
22		going to do the same thing again, just like this, right?
23		So here we'll put down a line over here just like this and just make sure that on the
24		other side we'll end up in the same direction.

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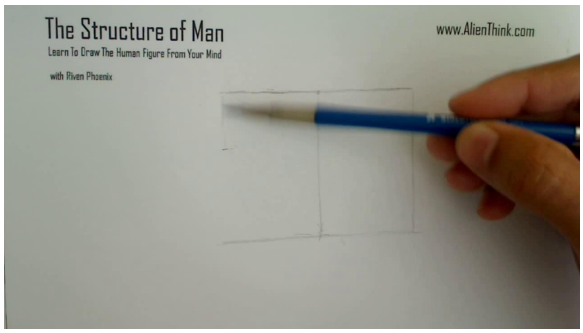
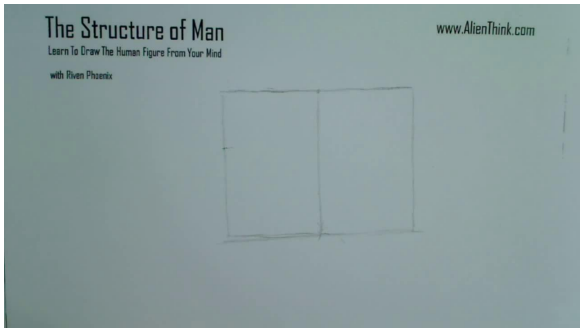
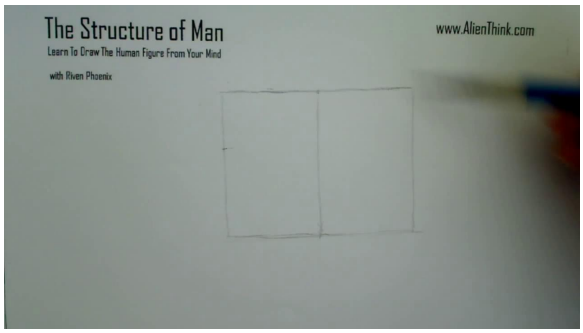
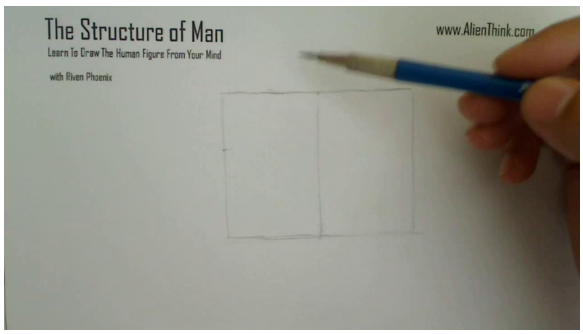
25		Now here again you'll notice that I'm just going to sketchy about it over here.
26		So once you get this box, right, so what this box really represents is basically the width
27		of the figure, right?
28		So if you divide this in three different parts, let's divide this in three different parts.

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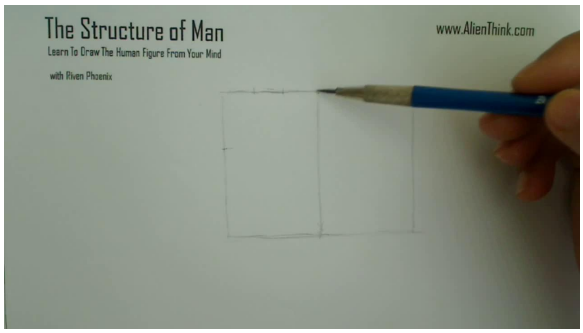
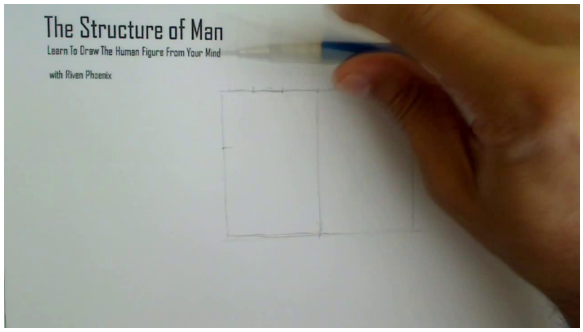
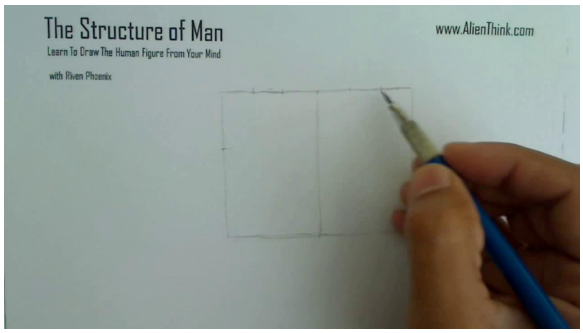
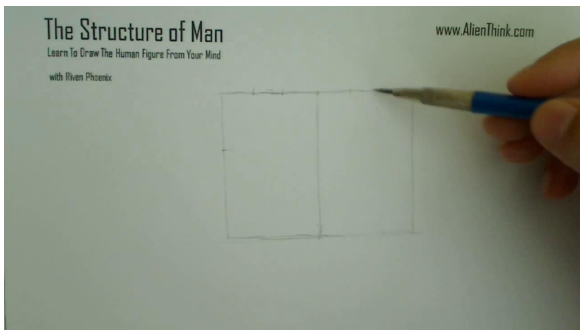
29		So this is going to be the whole head structure over here, right?
30		So from here to here we're just going to state that okay, it's going to be really the
31		head would have been a circle in this because right, the chance cavity would have been,
32		we know that we just need to increase the chance cavity if this is the full head on the

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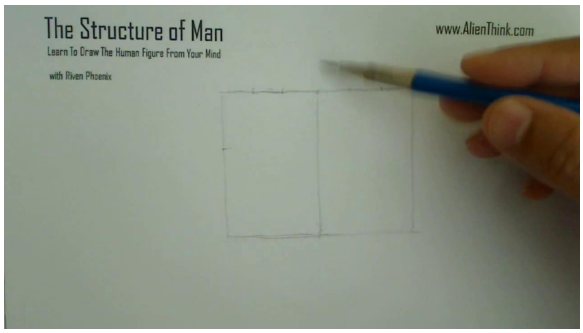
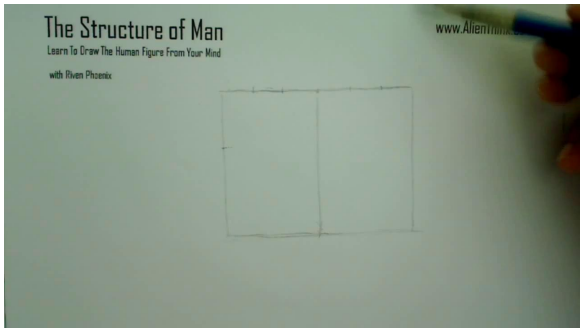
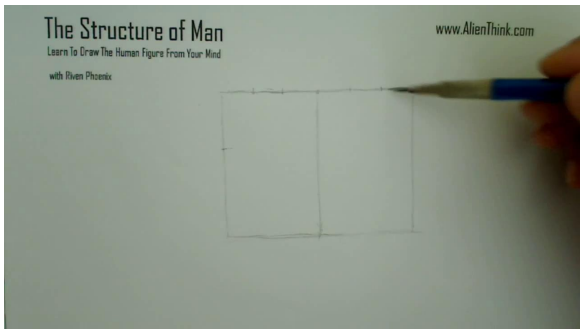
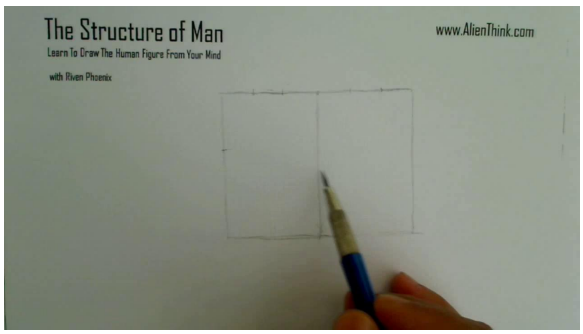
33		half of the head over here when we divide this we just take this and do it like this, right?
34		So the above would be the chance cavity, right?
35		So I just want you to take notice that this is where this area is.
36		So once we have this we can now divide really just this in half like this over here and

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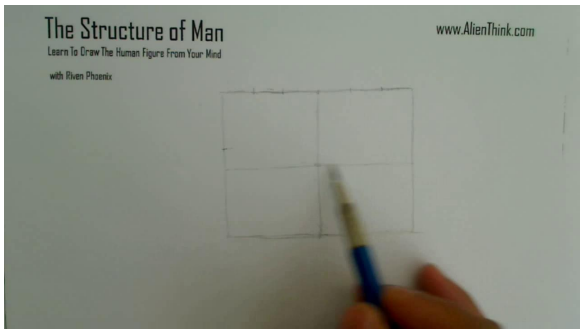
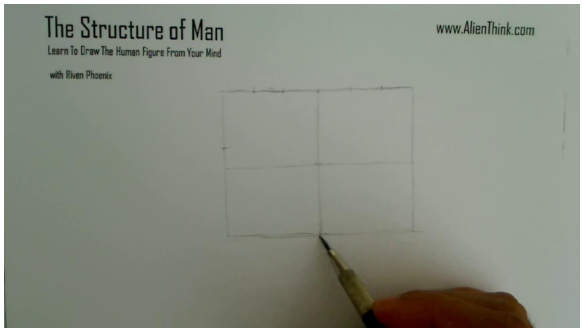
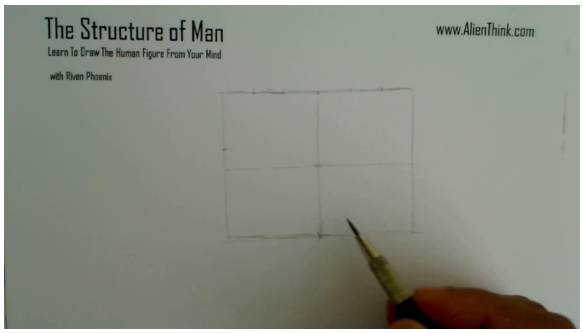
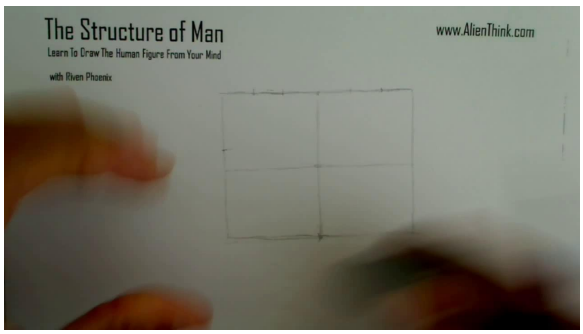
37		this will just give us that window.
38		So remember this is the crotch area.
39		So basically what we want to do is now we want to change the understanding of this formula,
40		right?

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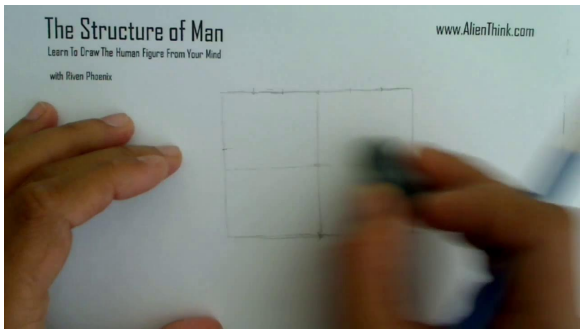
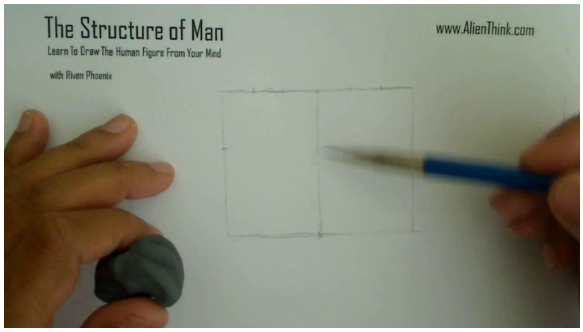
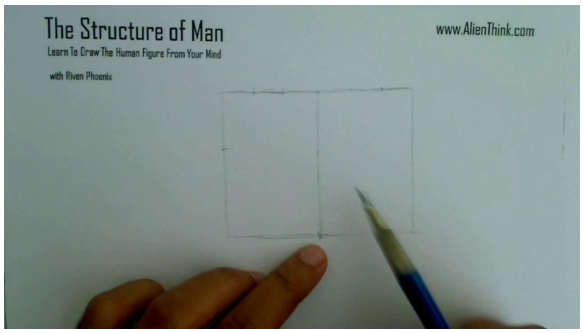
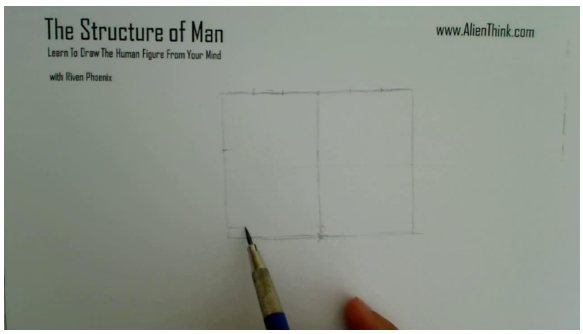
41		So what we're going to do is remove this line here, okay?
42		Because we really want to did want to divide it in half.
43		But when it comes to the pelvis we're just going to make a line about here, right?
44		Just make it, don't go too far up just an assumption that once I have the crotch area

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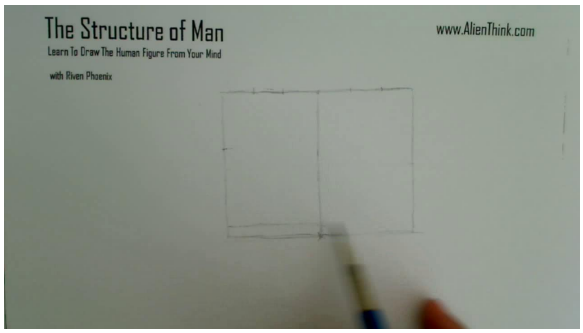
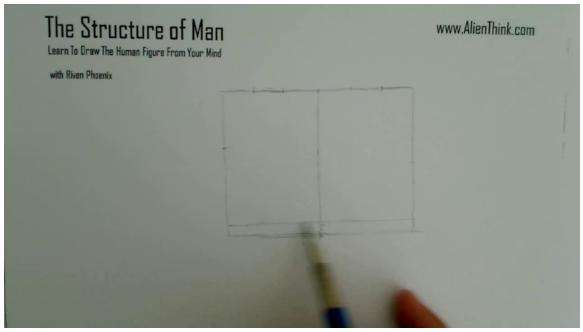
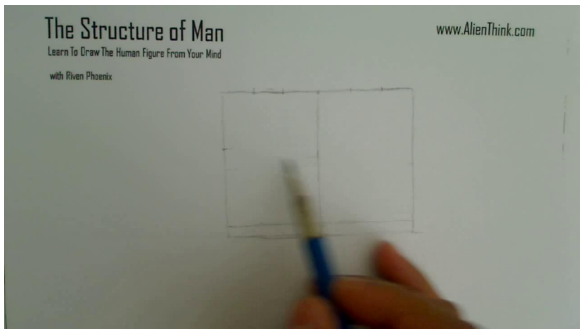
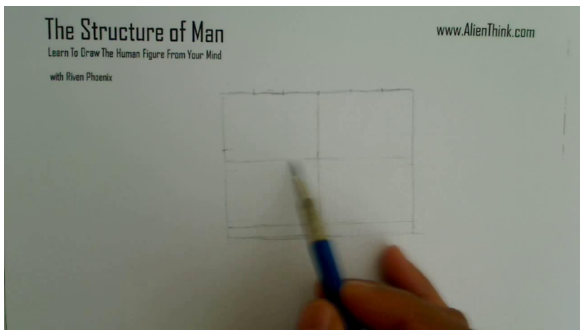
45		over here I'm going to make a line here, right?
46		We're going to shorten this up and then we'll divide.
47		So basically we're just going to look at this box and divide this in half like this,
48		okay?

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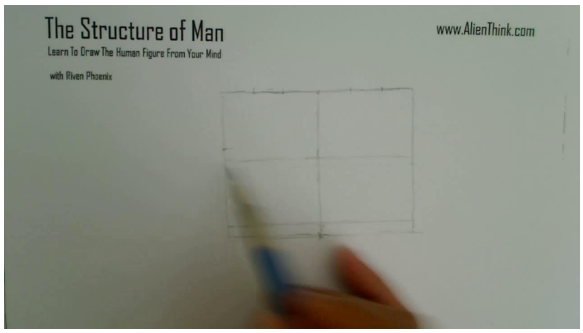
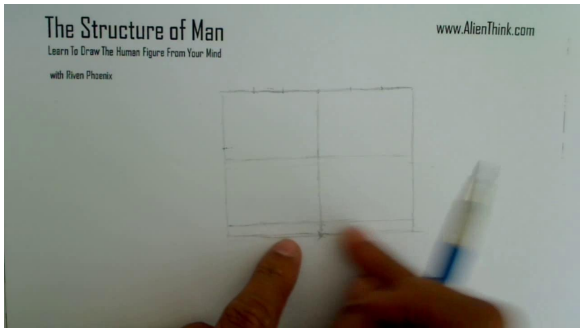
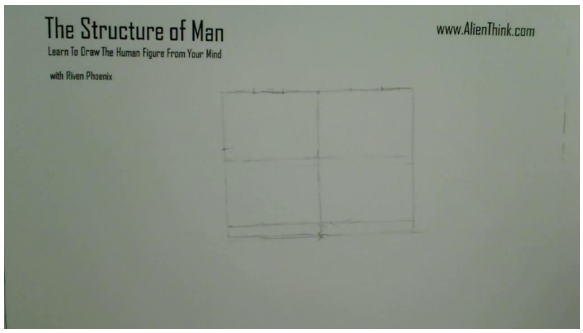
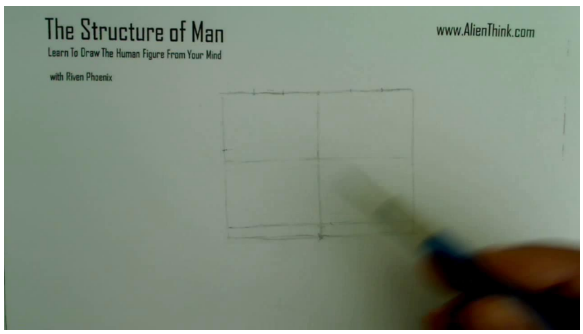
49		So it's really going to be this rectangle and over here is we need to do this so we can,
50		it's like the special thing that will help us understand what happens to the bottom area
51		for the pelvis.
52		So this is going to be very easy.

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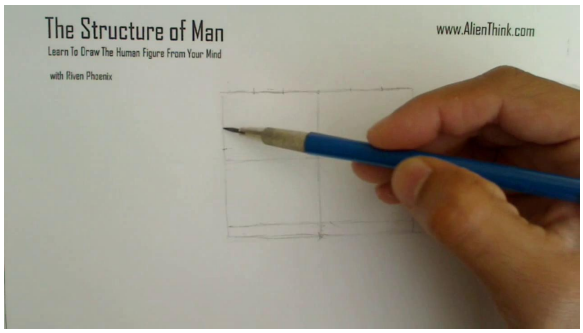
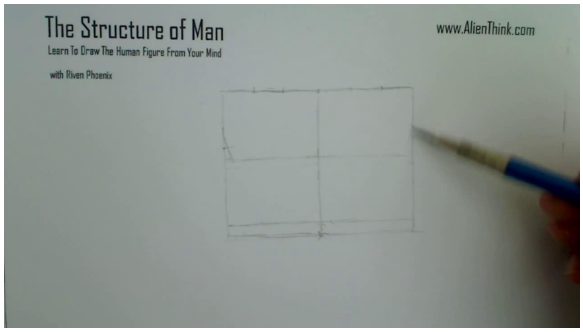
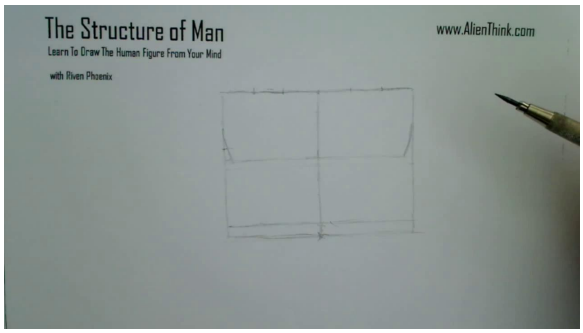
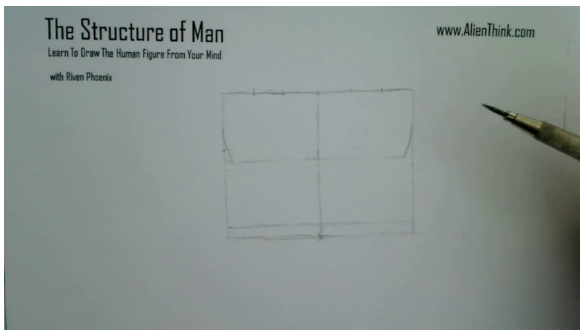
53		Really over here, to the half point, from here we right now just need to make two lines
54		like this because this is going to be the area for the pelvis that's going to be coming
55		towards us, right?
56		So we're looking at the front formula here.

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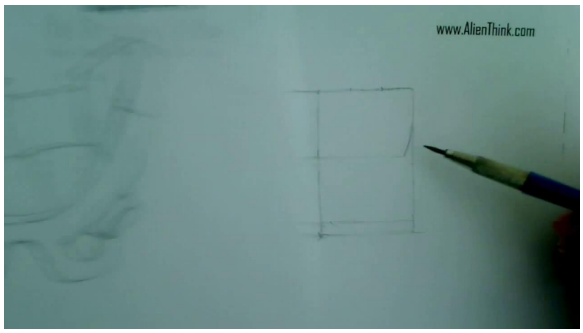
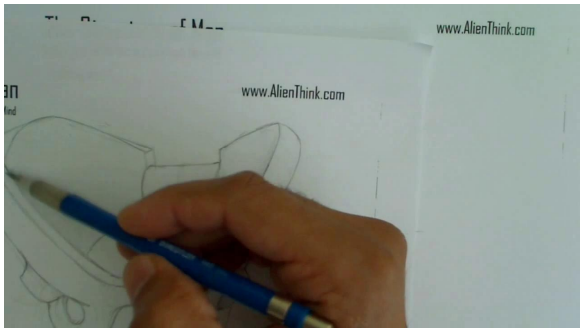
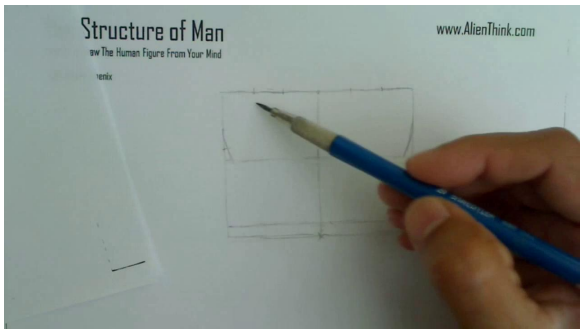
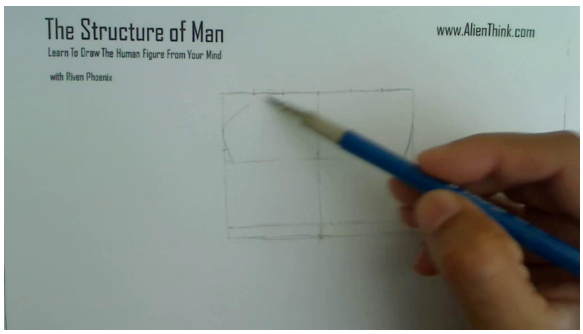
57		So what this line represents is really this area here, right?
58		This thing curving down, here I'm just curving it really down even more, okay?
59		So once we have this, what we're going to do is just go where this half area is and
60		just go like this over here and then go like this over here, right?

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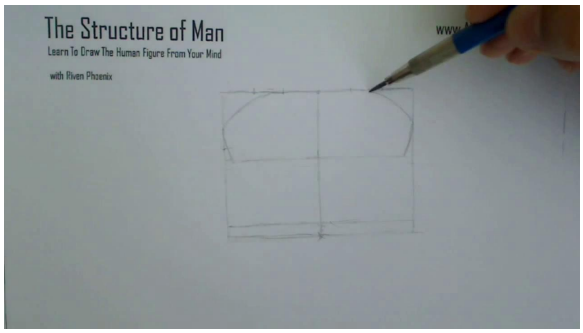
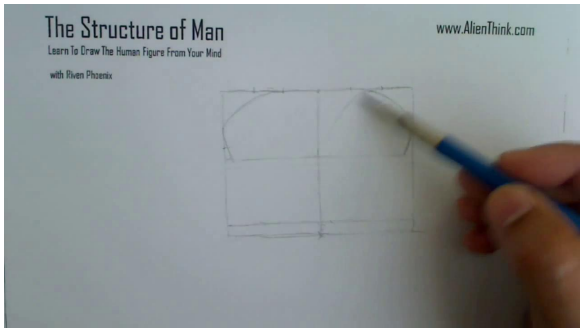
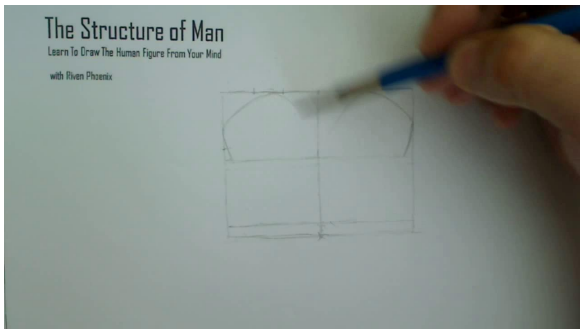
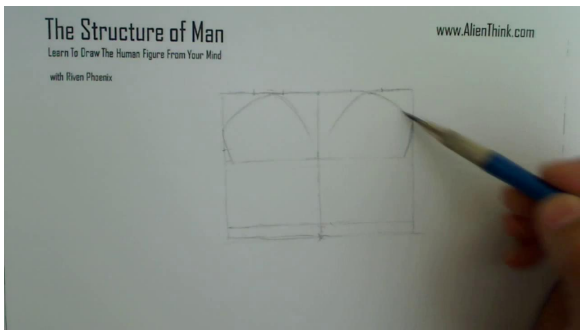
61		It's just this conceptual idea and once we get this, we're just going to turn and go
62		towards like this, right?
63		So here we're just designing that simple concept of the pelvis.
64		So what this bone structure here is this area over here in the pelvis, right?

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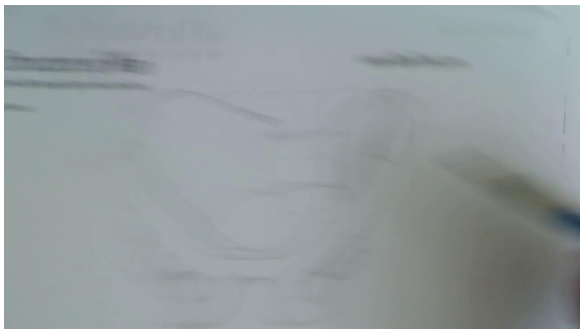
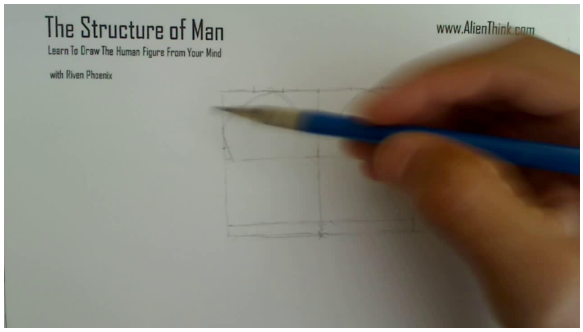
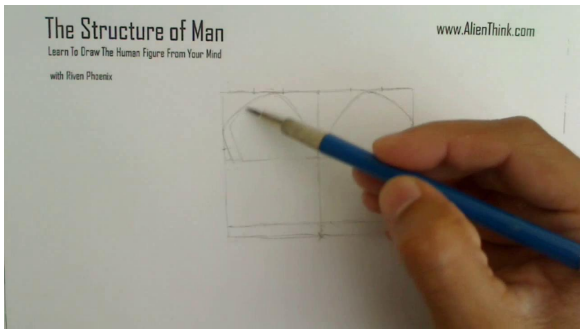
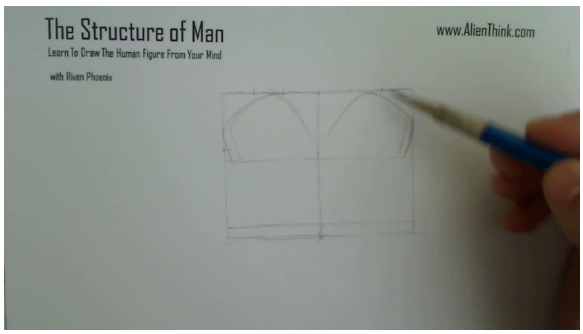
65		These two areas.
66		And that basically it, now we know that in the wood design, we know that this is in front
67		of us and now it's just going to go in the back over here, this is the wood design over
68		here and now it's just going to go in the back over here, okay?

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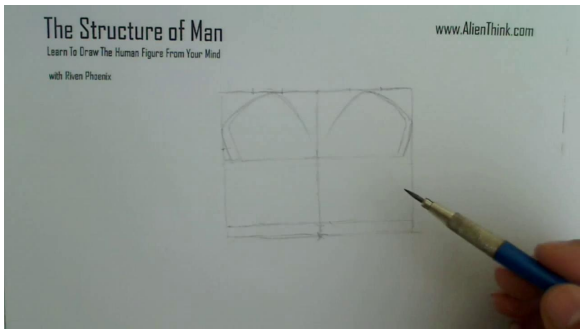
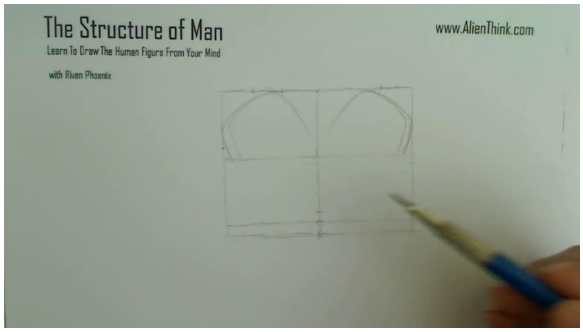
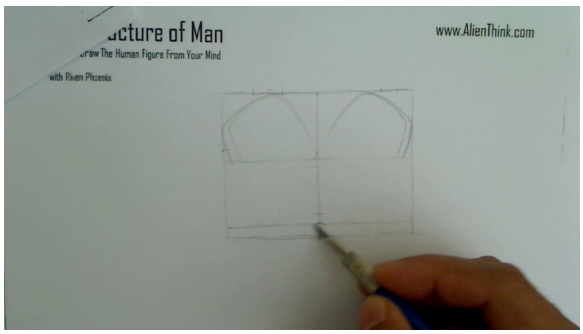
69		So once we get this, we know that over here, we're going to get this idea here over here,
70		which is the same thing as this idea over here, right?
71		This idea is going to be just like this.
72		So we know that we're going to get two bone structures going, see this line here, this

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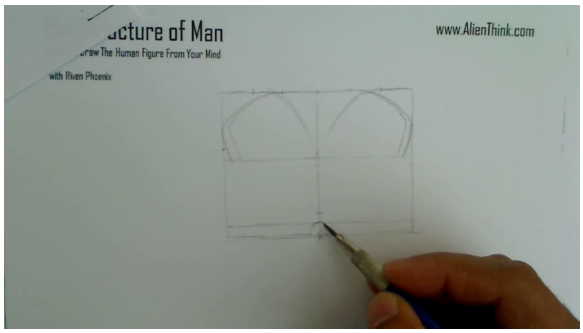
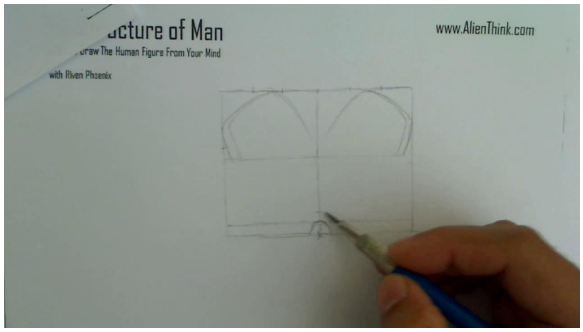
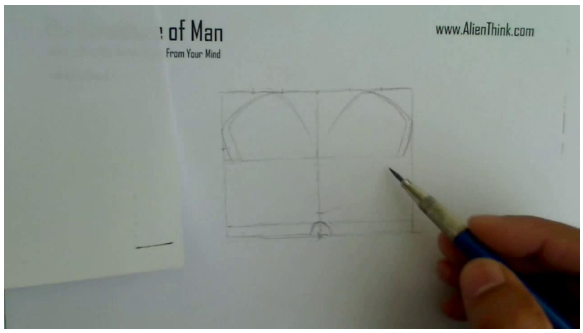
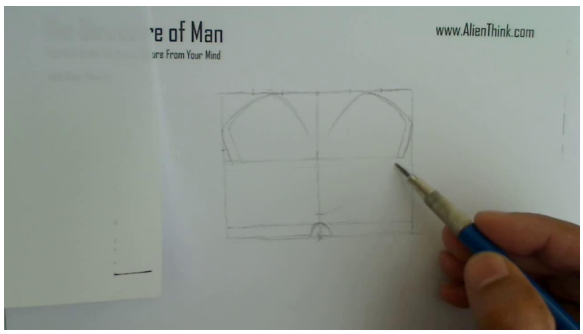
73		is where the crotch area is going to be.
74		Basically that's it and you know, we already know that we just have to connect this line
75		over here, right?
76		So this here, we can just connect it like this, make it like a heart shape.

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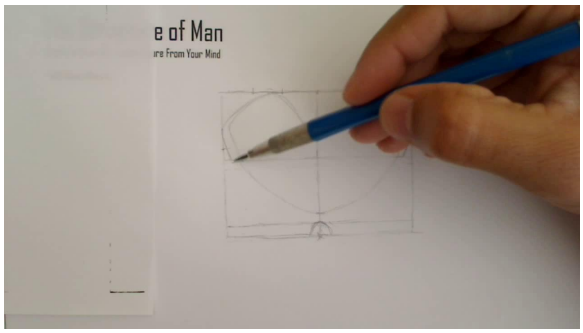
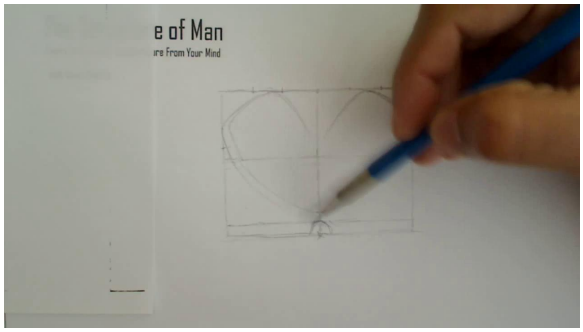
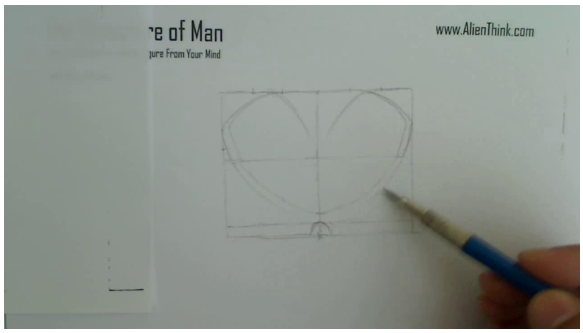
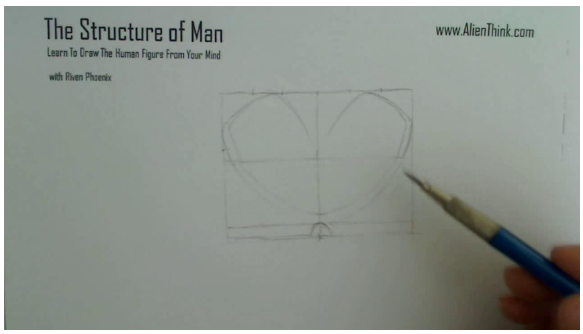
77		And that's really it, once you get this concept down, you're just going to come like this
78		over here, over here and then come like this over here.
79		I hear him just notice I'm doing everything lightly because when I come back in, this
80		is just that drawing process and they will make everything much more better looking.

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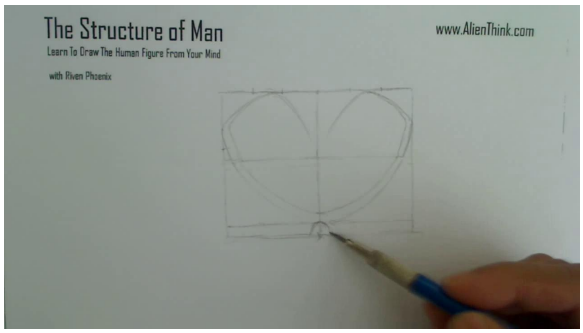
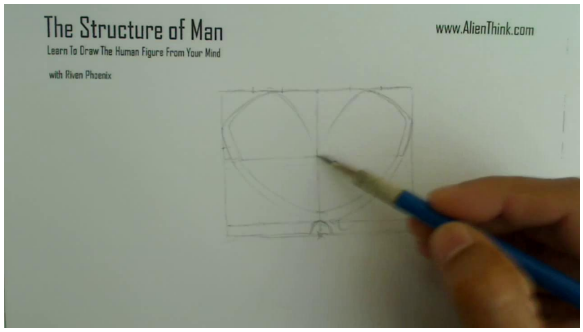
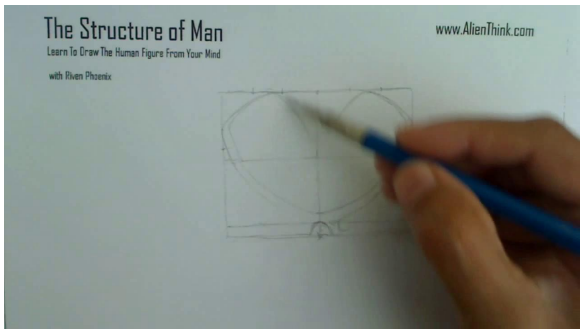
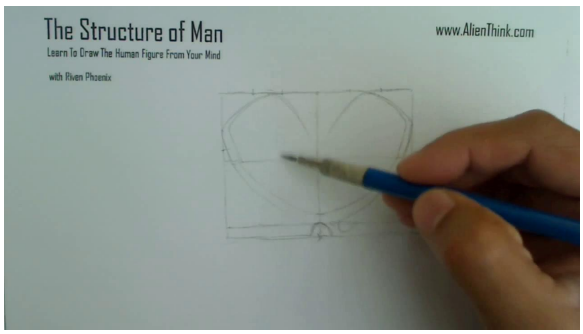
81		So we know that, okay, well, we know that this bone structure here is going to be going
82		in the back somewhere over here, right?
83		So here is where we're going to make the sacrum.
84		Now the sacrum, we can just make it about here half way here, right?

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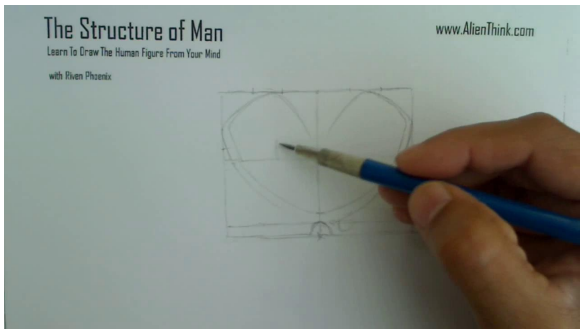
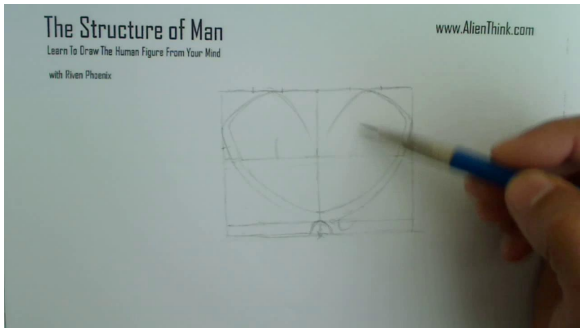
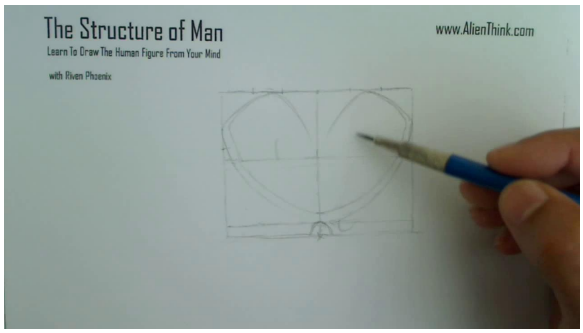
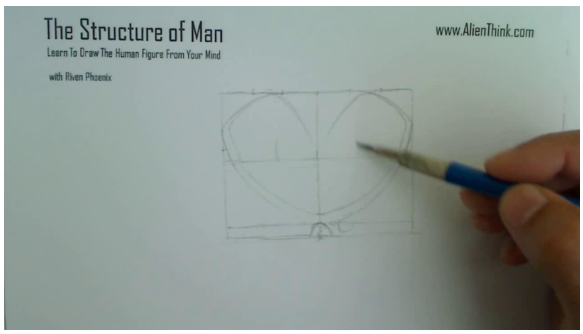
85		So because we had said that it's really the width of the head, but the thing is because
86		the head is in front and this is the back area of that buttocks we're going to have to
87		deal with perspective.
88		So really we're just going to make it a little shorter over here for the sacrum and just

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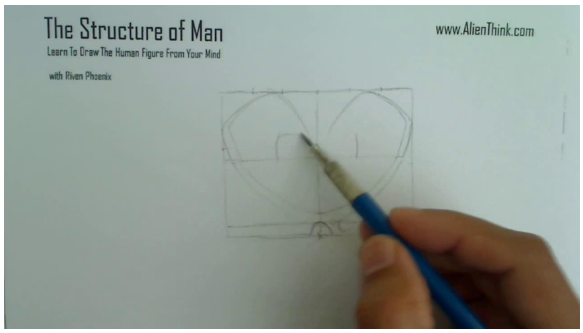
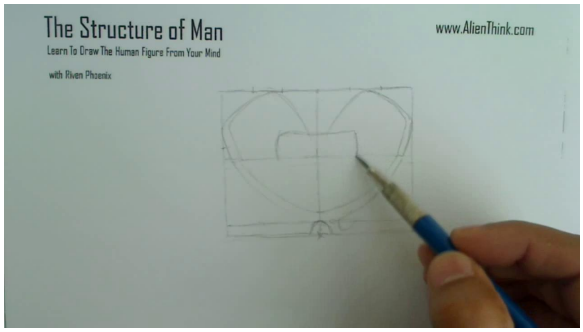
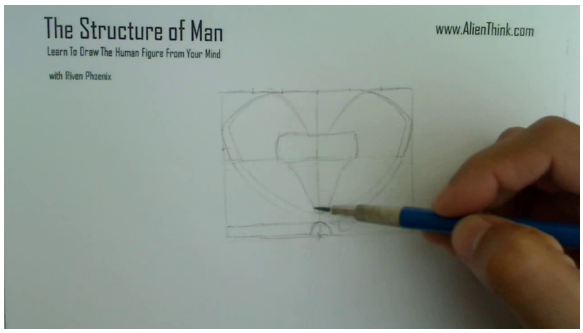
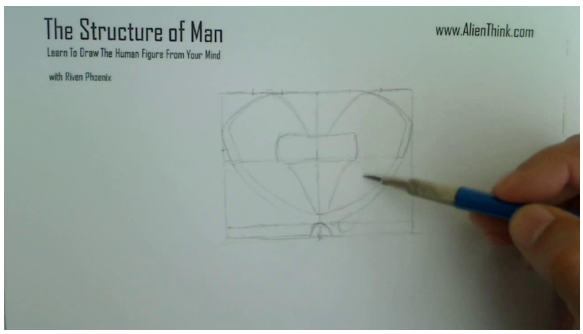
89		going to design it in this way, right?
90		So this part here, right, you can really just make it like this over here.
91		This is just going in the back and then what happens is that from here, we know that this
92		is the bottom area that we have talked about.

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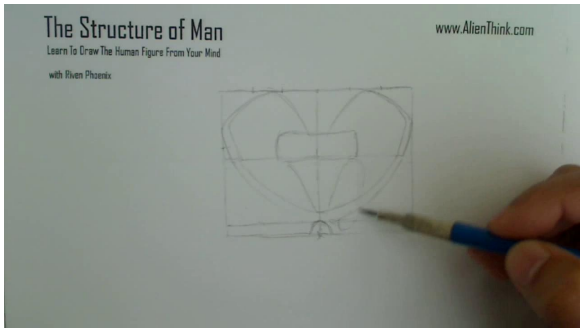
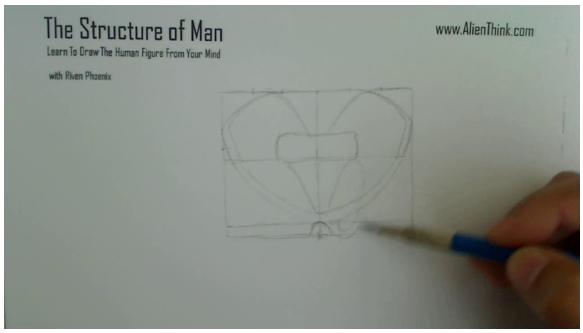
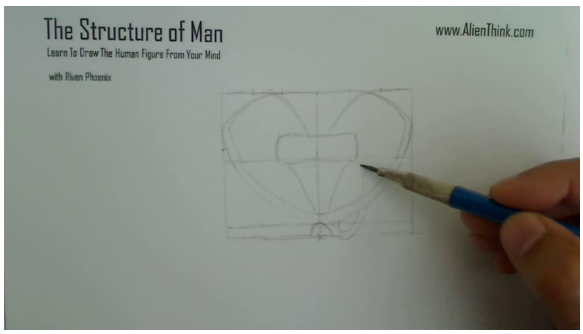
93		This bottom area is going to always be connecting here.
94		So let me know that basically it's going to go down over there, right?
95		And this is just going to go over there.
96		It's going to curve and connect and this one is going to do the same thing, curve and

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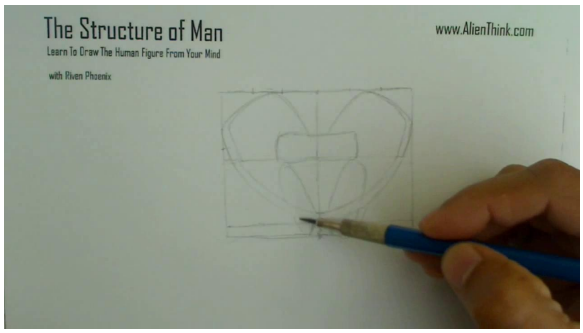
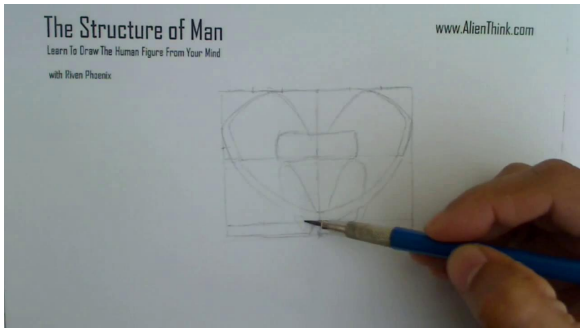
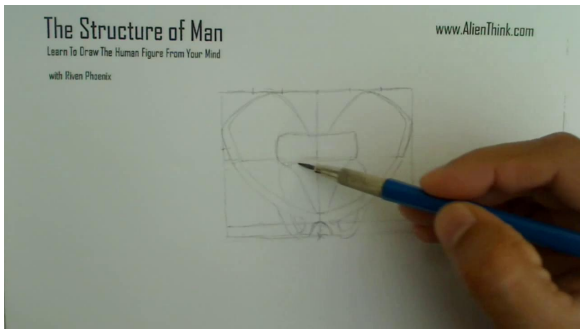
97		then connect, right?
98		So here, we're going to sketch out just simplicity of this idea over here.
99		Remember this is a separate area over here for the sacrum and that's it, then we just
100		draw this out.

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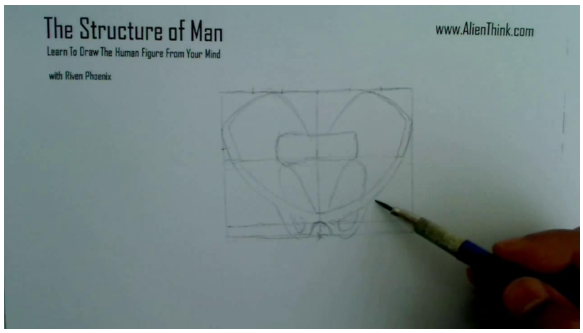
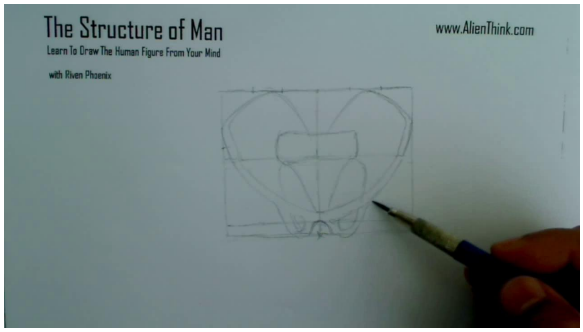
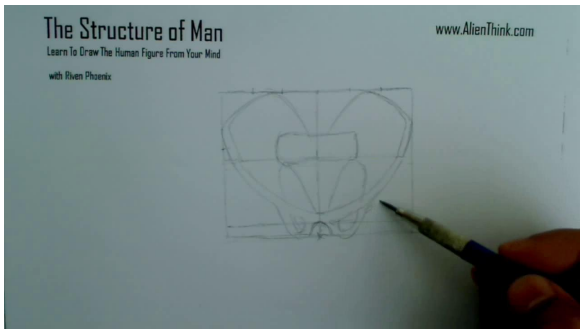
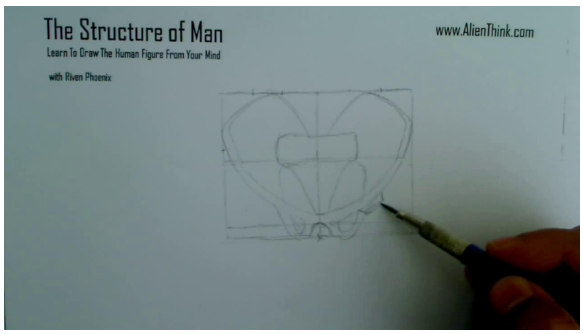
101		So here, basically right when you get this junction, right, notice where this is over here,
102		it's about here.
103		So here, I'm going to just put this shape over here saying that this is where the ball joint
104		is going to be fitting just like this, okay?

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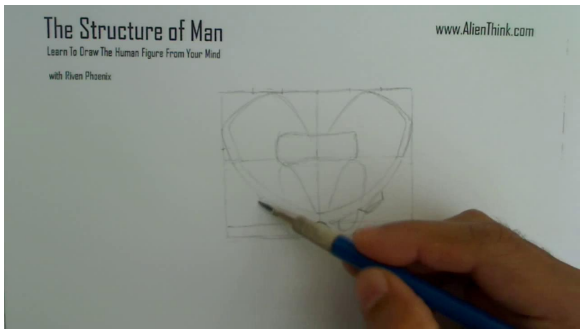
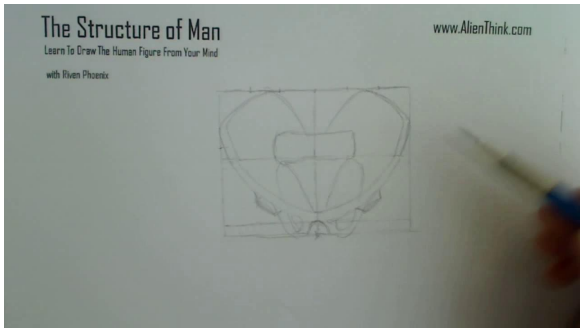
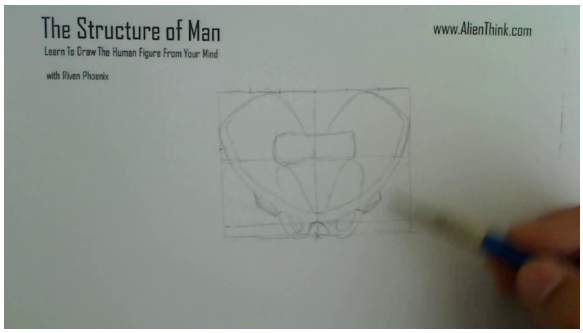
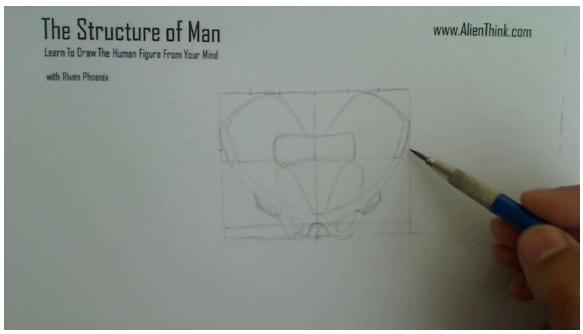
105		So the ball joint for your, for your legs is going to be in this socket over here and
106		that's it.
107		The thing is that when we move forward with these formulas, we're going to have to adjust
108		this a little bit, right?

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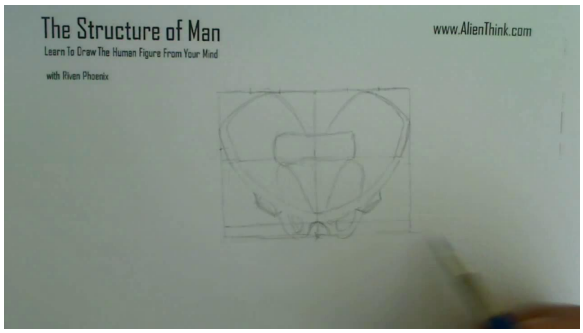
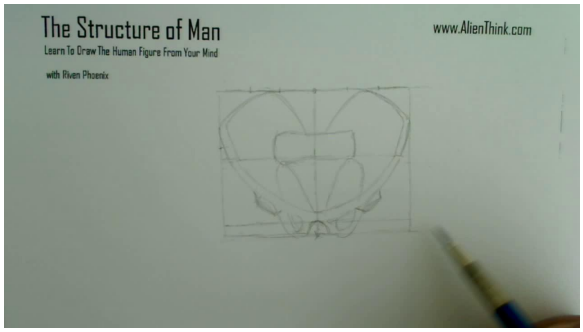
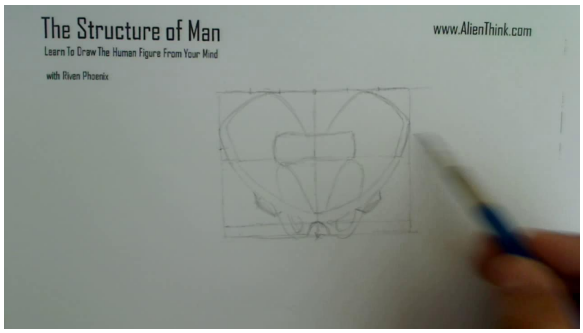
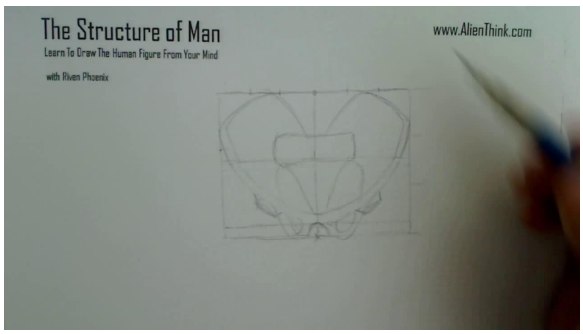
109		Because if you remember from the naval area where the naval is that we had said, we're
110		just going to divide this in three different parts, right?
111		About three different parts, okay?
112		So you know that, okay, well, if it's three different parts, I really, what I want to

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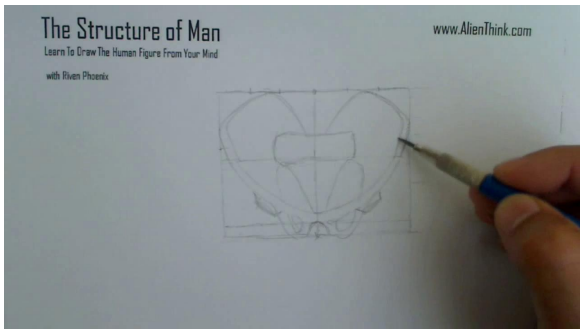
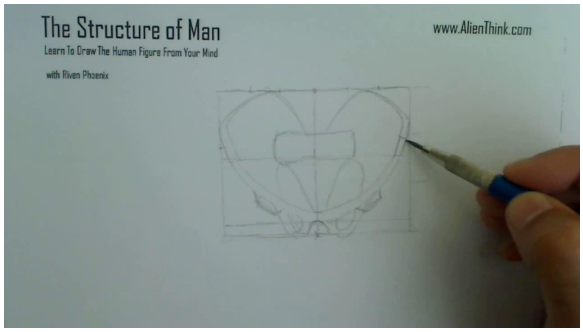
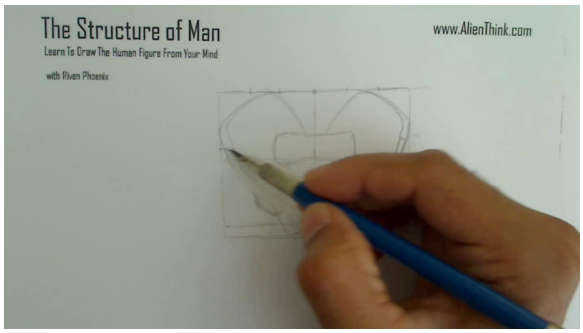
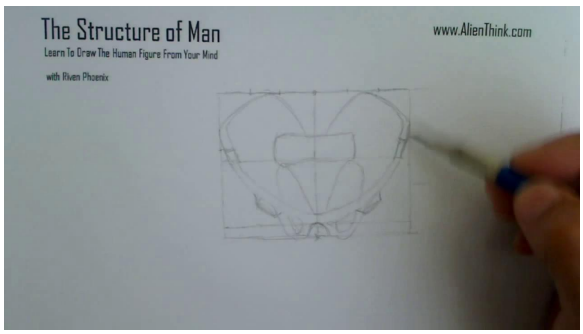
113		do is really cut this here and then I can make it go in this direction.
114		So this is like this curve area going to be here in this way, right?
115		So just remember that that this is approximated ideas and the reason I'm showing you this
116		is because this comes down to the toolkit because your love handles, remember the junction

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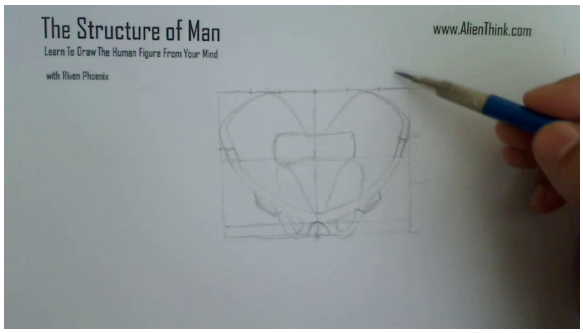
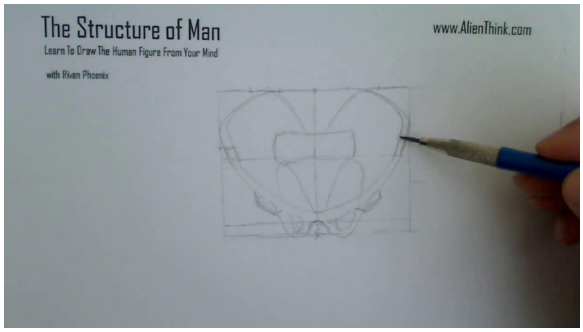
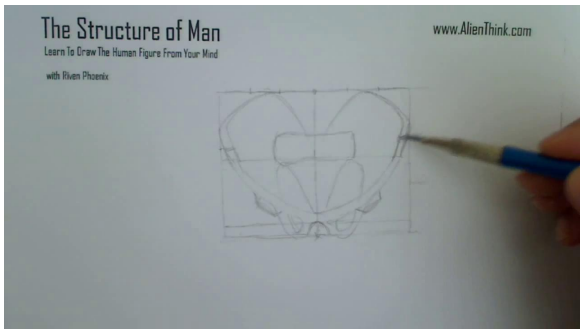
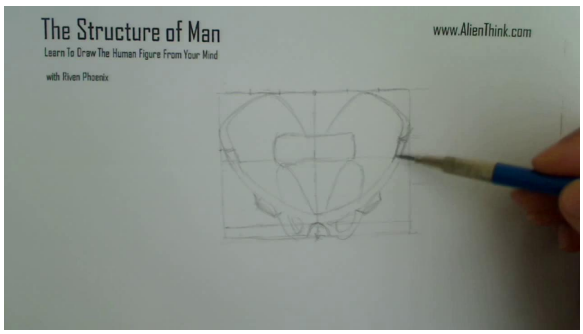
117		where we did for the, for the chest cavity where we come down that we have this junction
118		here that goes like this in the toolkit.
119		This is the line that I showed you in the toolkit.
120		That's why we did that junction because your ab muscles here, your stomach area is going

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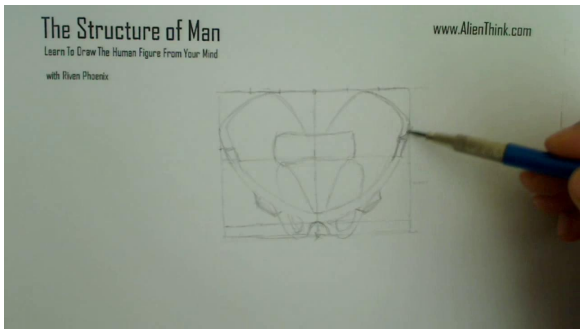
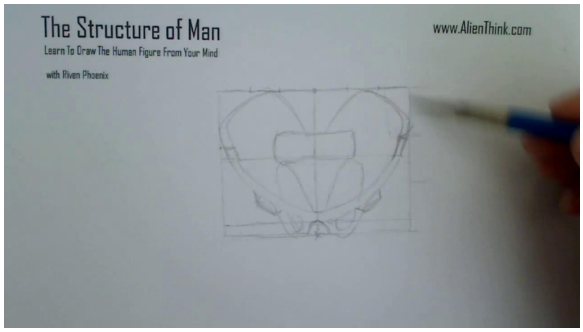
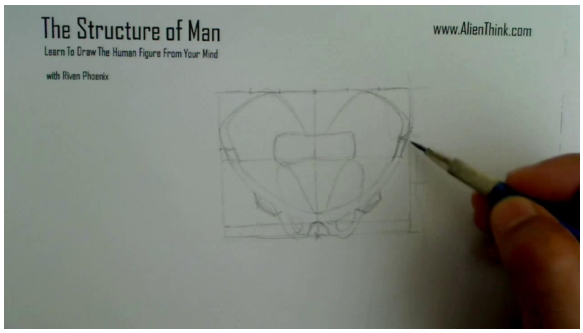
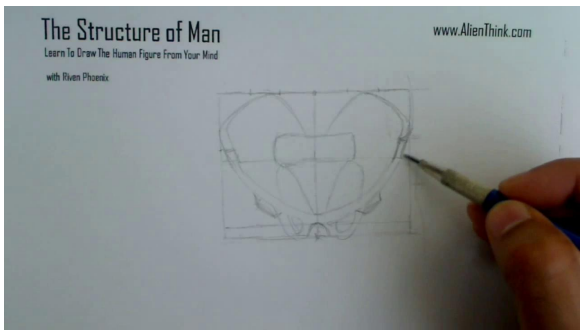
121		to be here and this is where your love handle, where your love handle is going to be over
122		here going like this and then you get like muscles over here going in this direction, right?
123		So just know that in this formula case, the easiest way is to just bring it down here
124		but knowing that it's just going to be so approximate over here that you'll get your love

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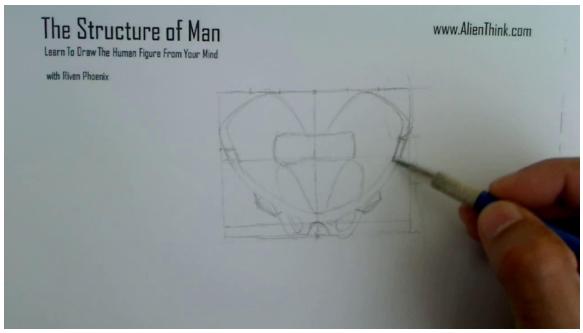
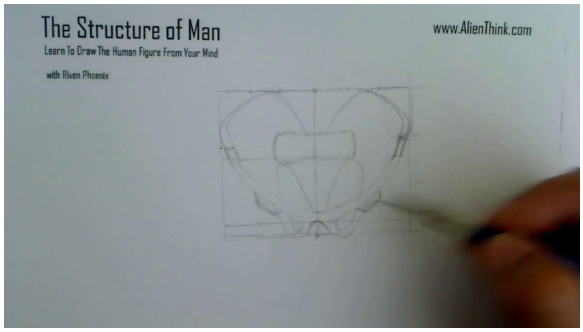
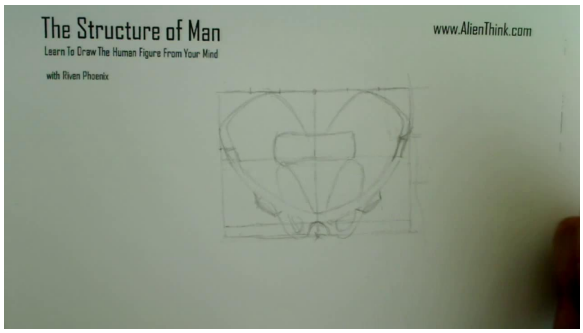
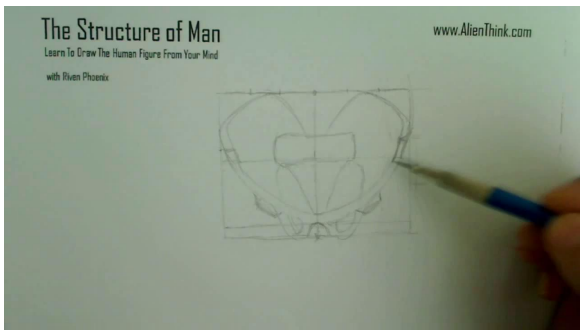
125		handles over here, right?
126		And this will all make sense once we actually put this on the scales and structures.
127		So we're doing it this way because this is like a, a, a, again, that idea of all the
128		pecs system and memory mapping knowing that how we created this so simply knowing this

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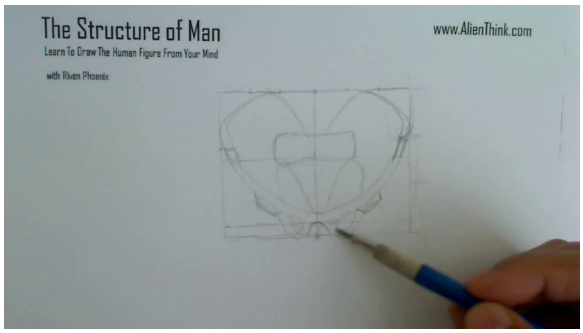
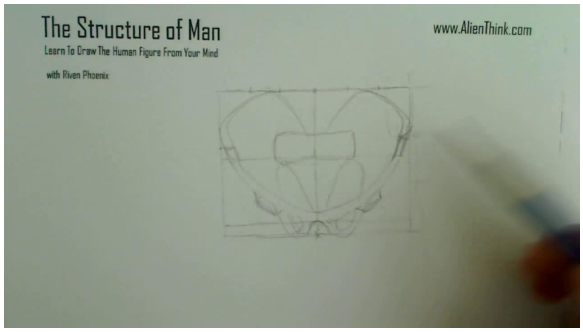
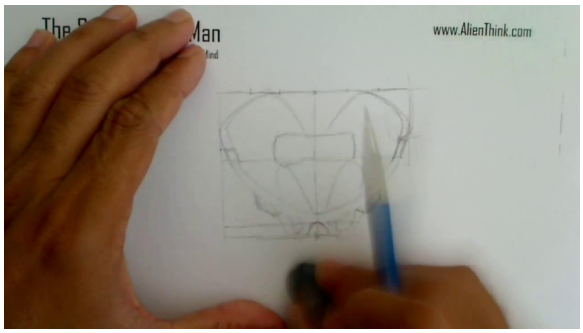
129		area here that these bones are going to be down here and then you're going to get this
130		junction over here, right?
131		So here now I can just erase all these lines basically and I can see the anomaly in the
132		back.

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133		So here I can now make my own version of my pelvis area over here, right?
134		So here I can actually just curve it in a little bit over here like this, right?
135		Make it like a bone structure like this and then make it come like this over here and
136		I know that this is going to be the socket area over here, we're going to get this, like

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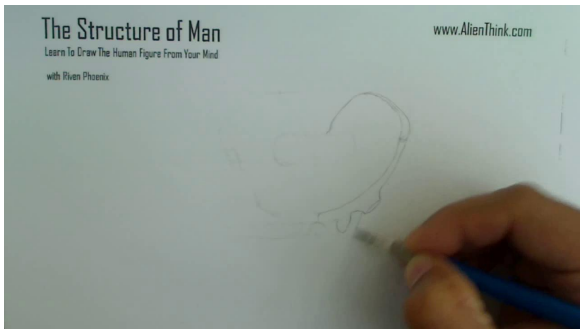
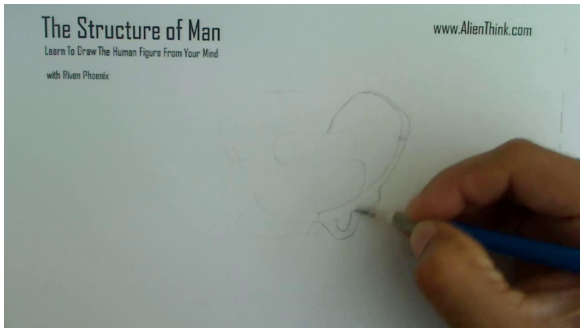
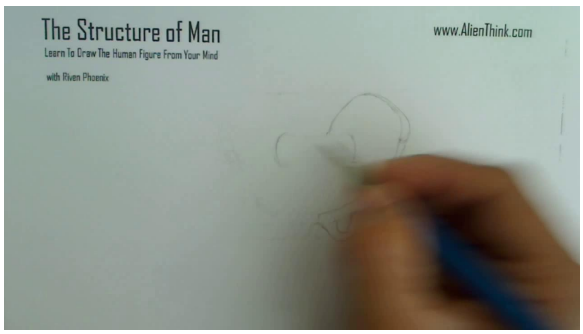
137		this release is just going to go in the back over here and then over here I'm going to
138		curve back in, right?
139		And this is going to be the area for the, the sacrum, right?
140		So you can even put it in a little more if you wanted to.

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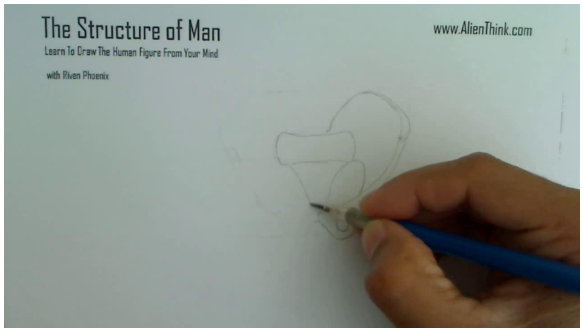
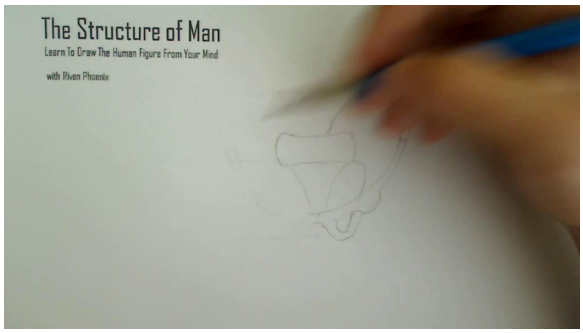
141		So I usually just do it this way.
142		And over here is where you're going to get that small area for the sacrum, right?
143		So here's the same thing I'm just going to bring it in a little bit over here, make
144		it curve in like this and make it go just about over here, right?

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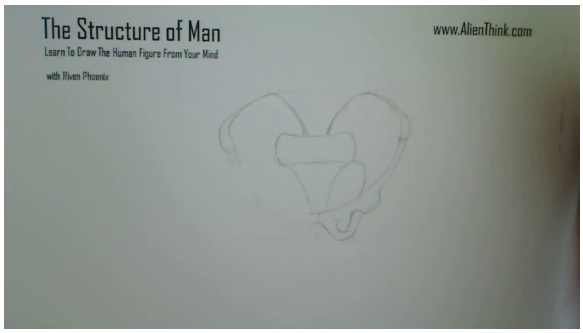
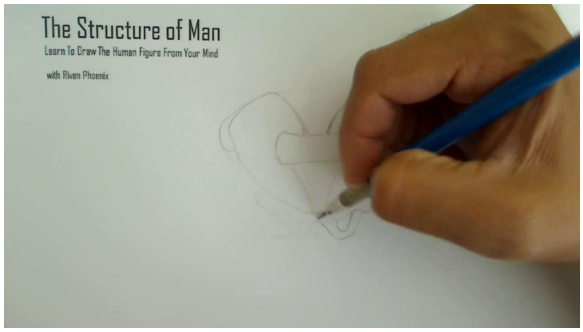
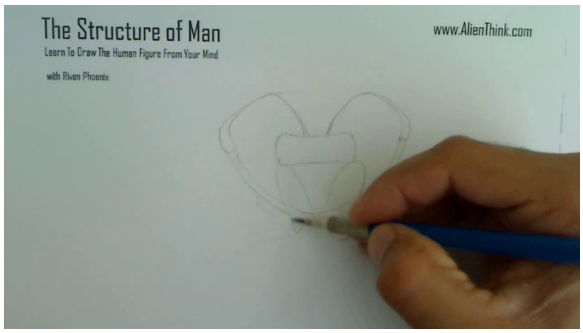
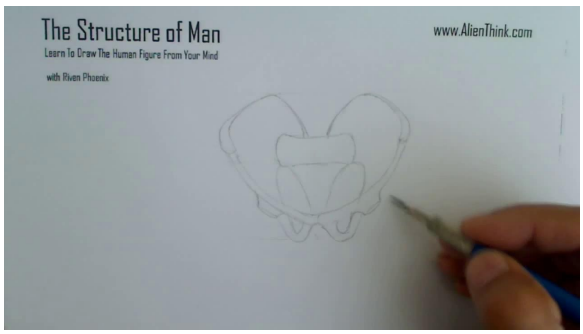
145		Just like this, then over here it's going to be the same thing, just going to make it
146		go like this and then just go like that, right?
147		And here, over here I'm going to pretty much do the same thing over here, right?
148		So your leg bones would go in this direction, right?

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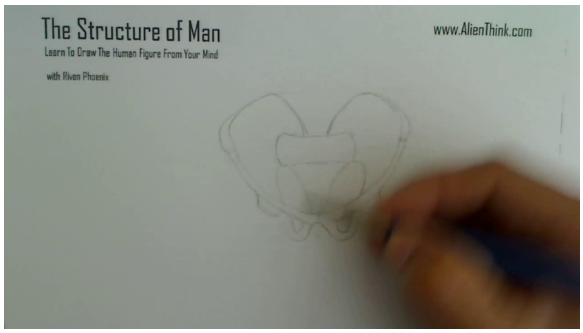
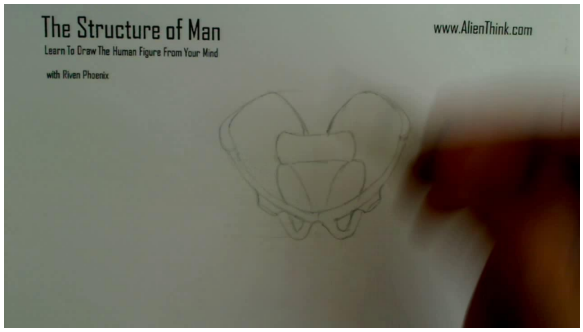
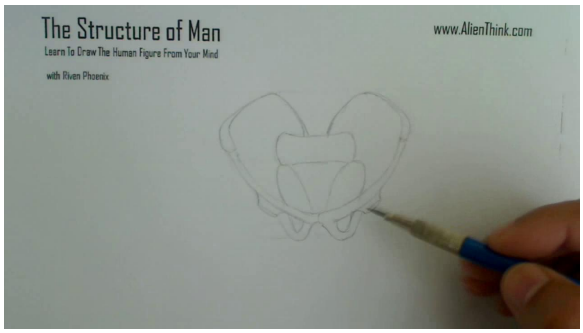
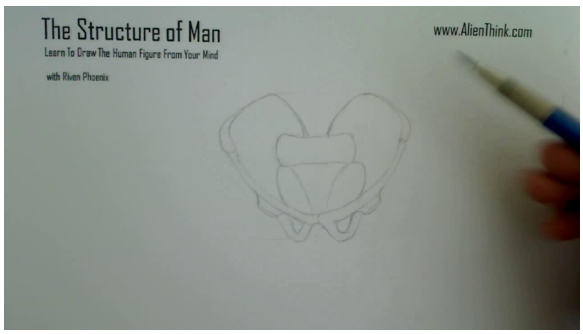
149		So this is conceptually the most basic concept of the pelvis that we can help the minor
150		understand, right?
151		Remembering how this bone structure wraps around over in this area over here, right?
152		So once you have this, you can now even shade this in a little bit over here, right?

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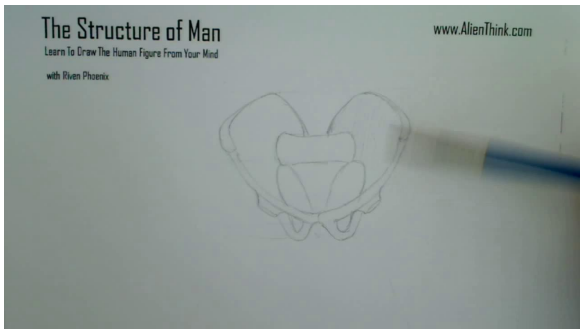
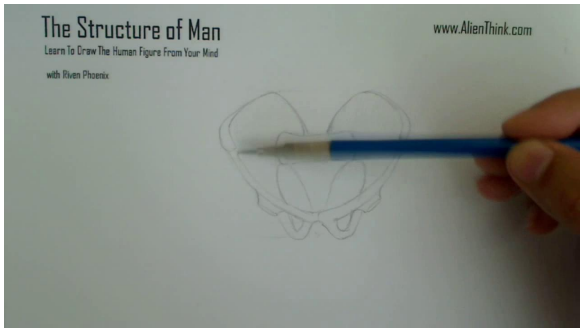
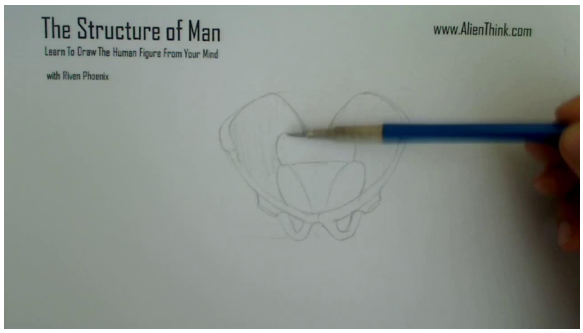
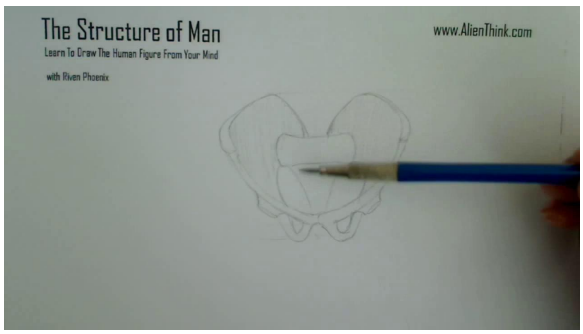
153		Just to show like a little bit of a curve, right?
154		So all of these are conceptual ideas, so we don't have to do such a detailed rendering
155		of this.
156		And over here, the sacrum is just going to be going down, right?

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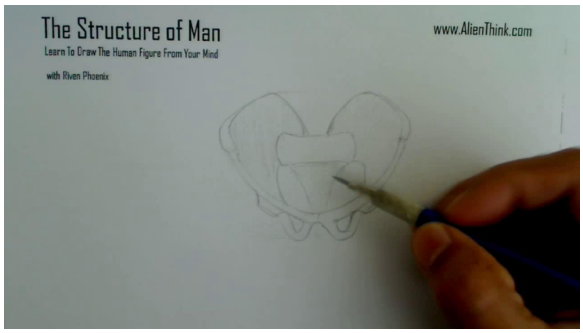
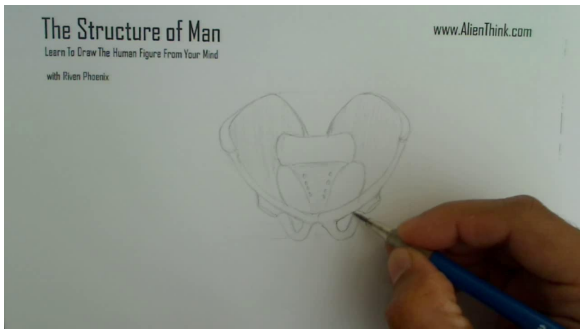
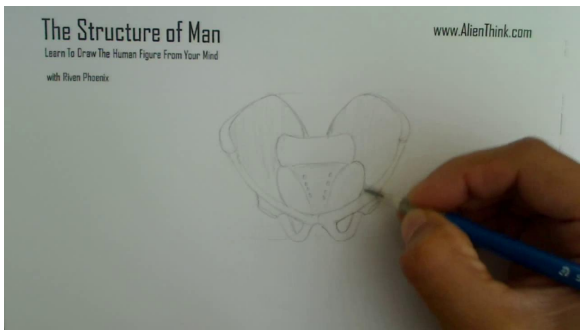
157		So here you can even put down a 1, 2, 3, 4, 1, 2, 3, 4 over here, okay.
158		So now that we've gotten this, since we have a little bit of time here, let me just
159		show you some additional things here that you can do.
160		Remember, it's all about just getting the basic concept down of the bone structure and

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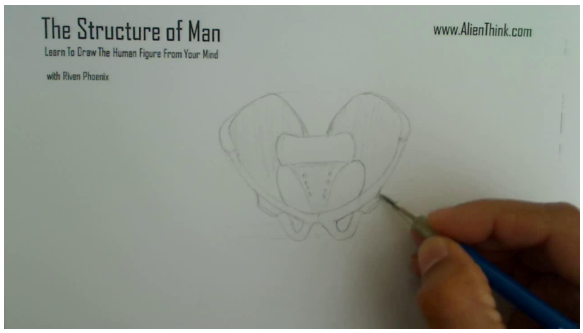
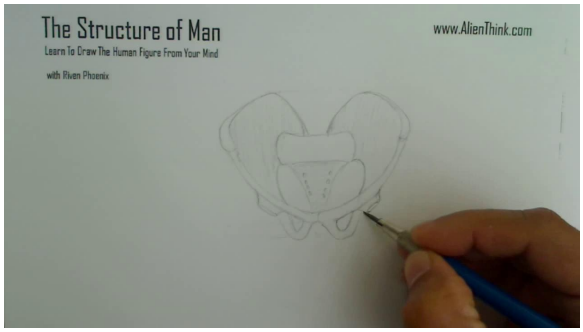
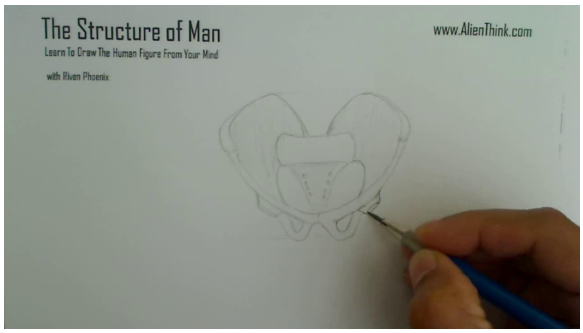
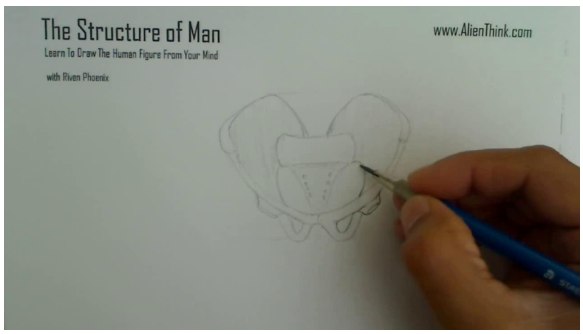
161		then here we can just come in here and then start to put really small amounts of detail
162		trying to make that bone structure the way we want it to, right?
163		You can look at your anatomical bones, if you have them, just to take a look at the
164		basic structure and you'll see the differences in how the pelvis is, but this is the most

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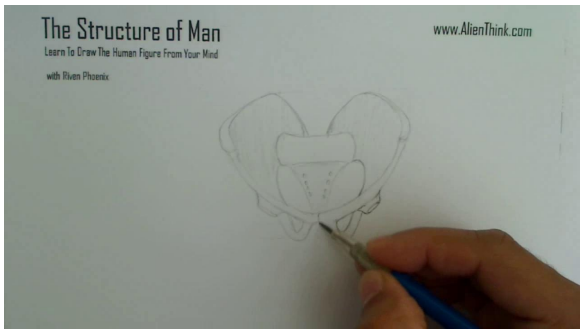
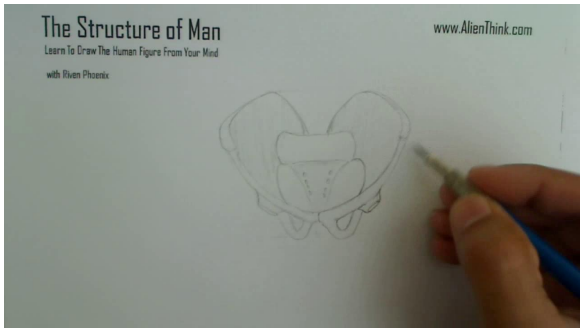
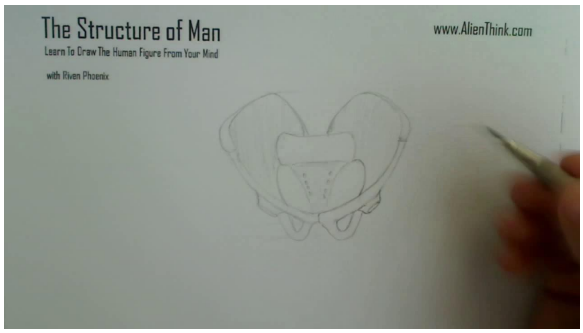
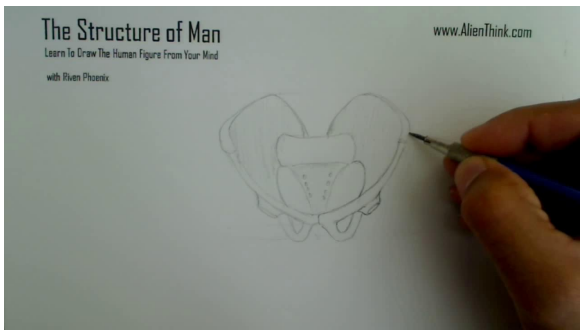
165		basic design of the pelvis that all we need to understand about it.
166		Because what's going to happen is that once we put the muscles down, right, it's going
167		to all come down to the contour lines that I was talking to you about.
168		And those contour lines of the muscle structures is all we need, right, then you can make anything

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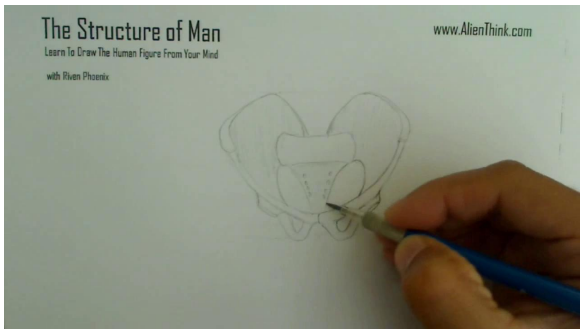
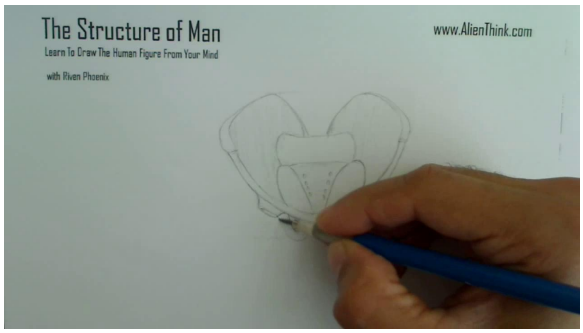
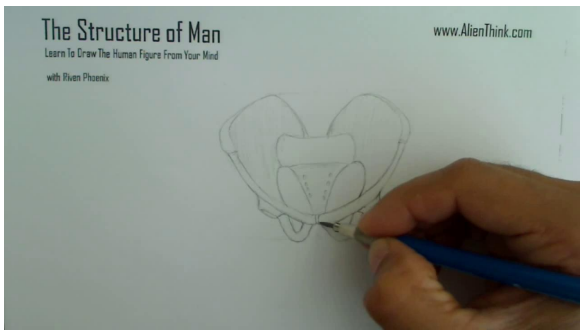
169		as realistic as you want, okay, right, so example over here, we can start to add a little
170		more detail, and then over here, make it go like this, a little more, put a little
171		bumps and bruises on it, you know, like it's a whole bone structure over here, then
172		over here I'm just going to divide it like this over here, like this, just like that.

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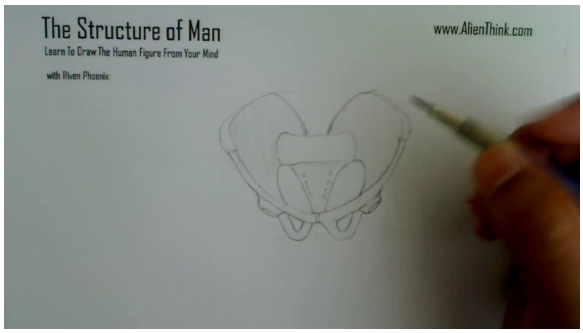
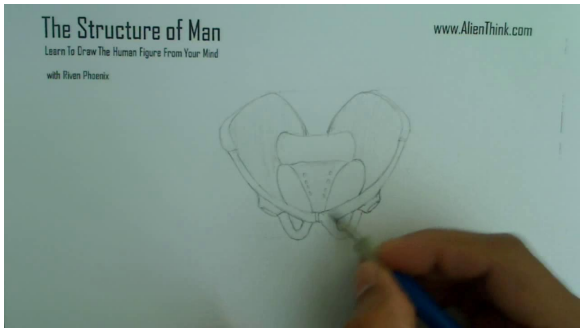
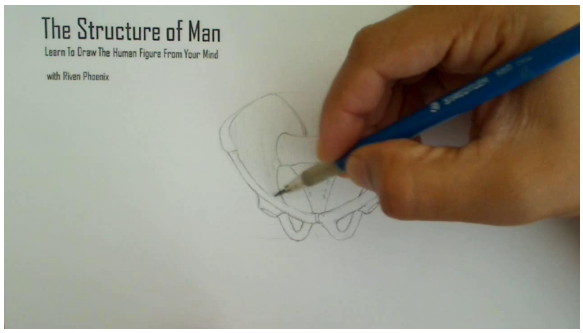
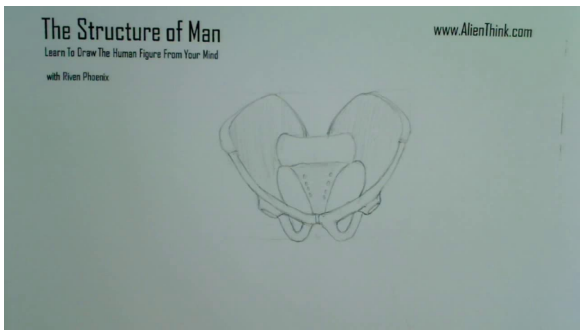
173		Okay, so now you'll notice that once we start making this into our own version, you'll
174		see that sometimes this bone here, over here is a little thicker, and then over here
175		I did the bone a little thinner, right, and that's like an organic idea of how we can do
176		these organic things here, right, the human being is now going to be completely symmetrical,

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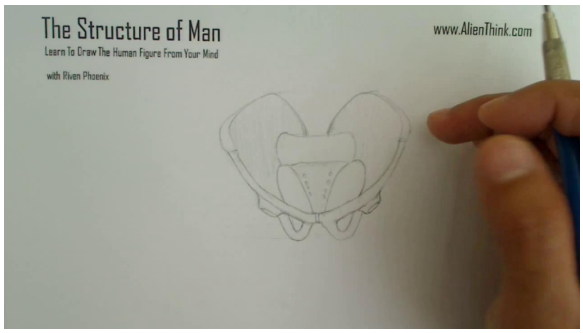
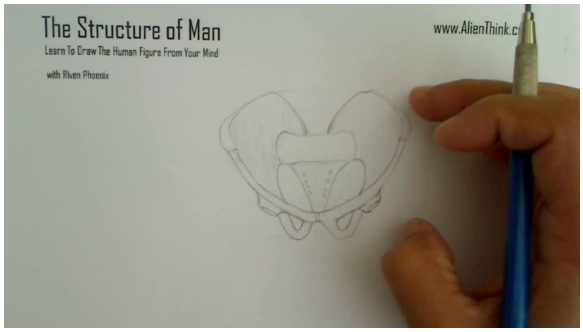
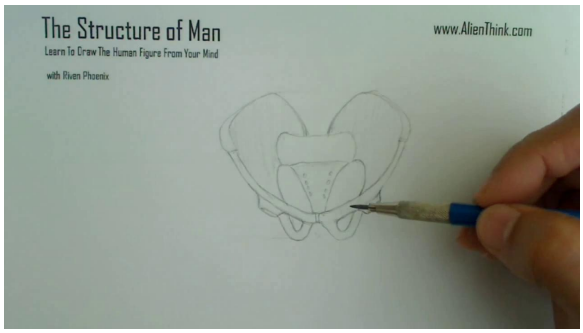
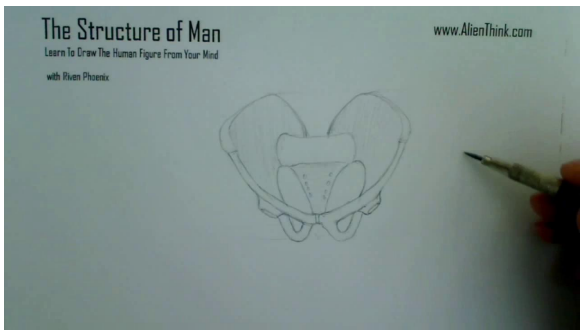
177		something cut out from a piece of wood, right, we're like using methamethematic formulas,
178		we just use a little bit of the formulas just to give a basic concept, we can draw it just
179		like that, right, so here, the thing would be the, I mean, well, how would you draw this
180		free hint, right, so let's say if I had this line here, and this would have been the area

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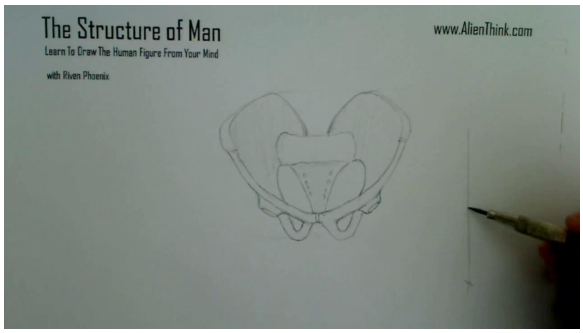
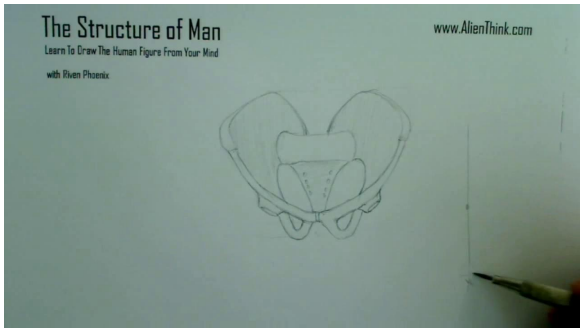
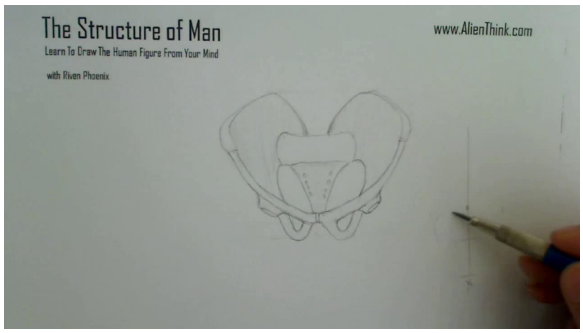
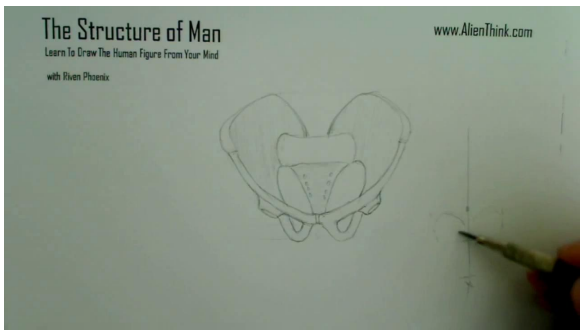
181		for the crotch, and let's say that this is where the belly button was, we already know that
182		really we just need to get the middle of this, as long as we know where everything is,
183		it's just going to be like this, right, it's just going to come like this over here, it's
184		just going to sketch it out pretty quick over here, let's get the basic conceptual idea down,

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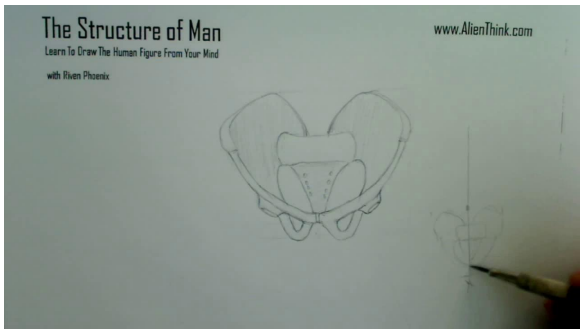
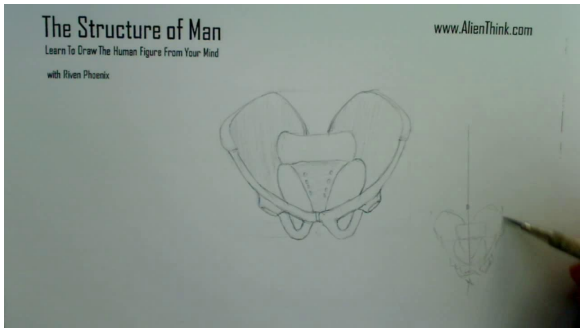
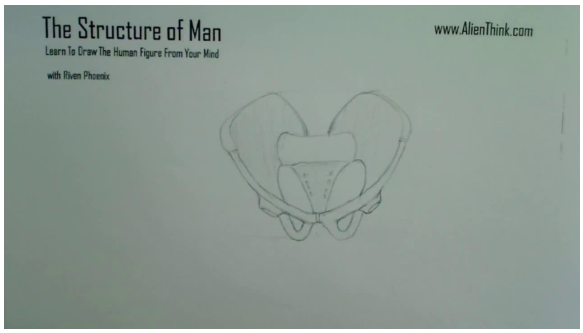
185		like so, over here, and then just start to turn it again in that direction,
186		right, and this will give you like a basic idea of the pelvis,
187		okay, so I'll see you in the next lesson.

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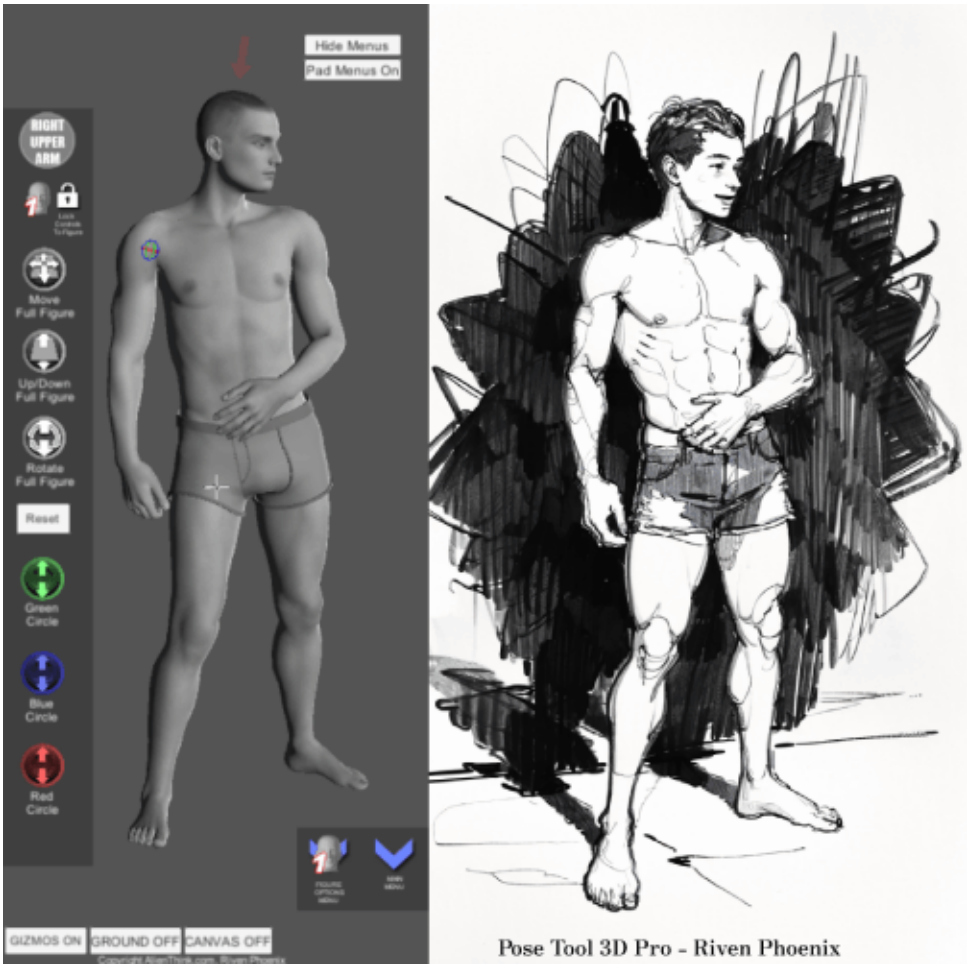

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